FILE 'HOME' ENTERED AT 15:55:01 ON 03 MAR 2010 => FILE REG COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.22 0.22 FILE 'REGISTRY' ENTERED AT 15:55:15 ON 03 MAR 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 American Chemical Society (ACS) Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem. STRUCTURE FILE UPDATES: 2 MAR 2010 HIGHEST RN 1207712-05-7 DICTIONARY FILE UPDATES: 2 MAR 2010 HIGHEST RN 1207712-05-7 New CAS Information Use Policies, enter HELP USAGETERMS for details. TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009. Please note that search-term pricing does apply when conducting SmartSELECT searches. REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to: http://www.cas.org/support/stngen/stndoc/properties.html => S TRIAZINE AND ETHENYL AND TRICHLORO 252714 TRIAZINE 933785 ETHENYL 284738 TRICHLORO 246 TRIAZINE AND ETHENYL AND TRICHLORO => S L1 AND ETHOXY 2879810 ETHOXY 1.2 12 L1 AND ETHOXY => D 12 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2010 ACS on STN RN 97802-78-3 REGISTRY Entered STN: 31 Aug 1985 ED 1,3,5-Triazine, 2-[4-[2-(4-ethoxyphenyl)ethenyl]phenyl]-4,6bis(trichloromethyl) - (CA INDEX NAME) MF C21 H15 C16 N3 O SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> S L1 AND DIETHOXY 147438 DIETHOXY

.3 2 L1 AND DIETHOXY

=> D 1-2

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2010 ACS on STN

RN 229326-43-6 REGISTRY

ED Entered STN: 29 Jul 1999

CN 1,3,5-Triazine, 2-[2-(2,4-diethoxyphenyl)ethenyl]-4,6-

bis(trichloromethyl) - (CA INDEX NAME)

MF C17 H15 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2010 ACS on STN RN 209530-49-4 REGISTRY

ED Entered STN: 06 Aug 1998 CN 1.3.5-Triazine, 2-[2-(3.5-

1,3,5-Triazine, 2-[2-(3,5-diethoxypheny1)etheny1]-4,6-

bis(trichloromethyl) - (CA INDEX NAME) MF C17 H15 C16 N3 O2

MF C17 F SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> S L1 AND DI AND OXY 25835905 DI

16245265 OXY L4 24 L1 AND DI AND OXY

=> D 1-24

SR CA

L4 ANSWER 1 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 1138830-85-9 REGISTRY

ED Entered STN: 26 Apr 2009

CN 1,3,5-Triazine-2,4-diamine, N2-[1-(3-methoxyphenyl)ethyl]-6-(1,2,2-

trichloroethenyl) - (CA INDEX NAME)

MF C14 H14 C13 N5 O

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 1138830-67-7 REGISTRY

ED Entered STN: 26 Apr 2009

CN 1,3,5-Triazine-2,4-diamine, N2-[1-[(3-methylphenoxy)methyl]propyl]-6-(1,2,2-trichloroethenyl)- (CA INDEX NAME)

MF C16 H18 C13 N5 O

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 1138830-57-5 REGISTRY

ED Entered STN: 26 Apr 2009

CN 1,3,5-Triazine-2,4-diamine, N2-[1-methyl-2-(3-methylphenoxy)ethyl]-6-

(1,2,2-trichloroethenyl) - (CA INDEX NAME)

MF C15 H16 C13 N5 O

SR CA LC STN Files: CA, CAPLUS

^{**}PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L4 ANSWER 4 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 504396-10-5 REGISTRY *
- * Use of this CAS Registry Number alone as a search term in other STN files may
- result in incomplete search results. For additional information, enter HELP $\mathbb{R}\mathbb{N}^*$ at an online arrow prompt (=>).
- ED Entered STN: 24 Apr 2003
- CN 2,7-Naphthalenedisulfonic acid,

5-amino-3-[[4-(ethenylsulfonyl)phenyl]azo]-4-hydroxy-, disodium salt, reaction products with

7-amino-4-hydroxy-3-[(4-methoxy-2-sulfophenyl)azo]-

2-naphthalenesulfonic acid disodium salt, propylenediamine, 2,4,6-trichloro-1,3,5-triazine and 2,4,6-trifluoro-1,3,5-triazine (CA INDEX NAME)

- MF Unspecified
- CI MAN, GRS
- SR CAS Client Services
- LC STN Files: CHEMLIST
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- L4 ANSWER 5 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 229326-45-8 REGISTRY
- ED Entered STN: 29 Jul 1999
- CN 1,3,5-Triazine, 2-[2-(2,4-dibutoxyphenyl)ethenyl]-4,6
 - bis(trichloromethyl) (CA INDEX NAME)
- MF C21 H23 C16 N3 O2
- SR CA
- LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 6 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN RN 229326-44-7 REGISTRY

ED Entered STN: 29 Jul 1999

CN 1,3,5-Triazine, 2-[2-(2,4-dipropoxyphenyl)ethenyl]-4,6-

bis(trichloromethyl) - (CA INDEX NAME)

MF C19 H19 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 7 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 229326-43-6 REGISTRY

ED Entered STN: 29 Jul 1999

CN 1,3,5-Triazine, 2-[2-(2,4-diethoxyphenyl)ethenyl]-4,6-

bis(trichloromethyl) - (CA INDEX NAME)

MF C17 H15 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 8 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN RN 212955-92-5 REGISTRY

Entered STN: 21 Oct 1998 ED

CN Benzenediazonium, 4-(phenylamino)-, sulfate (2:1), polymer with formaldehyde and 2-[2-(4-methoxyphenyl)ethenyl]-4,6-bis(trichloromethyl)-1,3,5-triazine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

1,3,5-Triazine, 2-[2-(4-methoxyphenyl)ethenyl]-4,6bis(trichloromethyl)-, polymer with formaldehyde and (4-phenylamino)benzenediazonium sulfate (2:1) (9CI)

CN Formaldehyde, polymer with 2-[2-(4-methoxyphenyl)ethenyl]-4,6bis(trichloromethyl)-1,3,5-triazine and 4-(phenylamino)benzenediazonium sulfate (2:1) (9CI)

MF (C14 H9 C16 N3 O . C12 H10 N3 . C H2 O . 1/2 O4 S)x CI

PCT Polyether, Polyether formed, Polyother, Polystyrene, Polyvinyl

SR

LC STN Files: CA, CAPLUS

> CM 1

CRN 42573-57-9 CMF C14 H9 C16 N3 O

CM

CRN 50-00-0 CMF C H2 O

 $H_2C = 0$

CM 3

CRN 150-33-4

CMF C12 H10 N3 . 1/2 O4 S

CM 4

CRN 16072-57-4

CMF C12 H10 N3

CM 5

CRN 14808-79-8

CMF 04 S

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 9 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 209530-49-4 REGISTRY

ED Entered STN: 06 Aug 1998

CN 1,3,5-Triazine, 2-[2-(3,5-diethoxyphenyl)ethenyl]-4,6-

bis(trichloromethyl) - (CA INDEX NAME)

MF C17 H15 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 10 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN RN 180308-17-2 REGISTRY

ED Entered STN: 29 Aug 1996

CN 1,3,5-Triazine, 2-[2-(2,5-dimethoxyphenyl)ethenyl]-4,6bis(trichloromethyl)- (CA INDEX NAME)

MF C15 H11 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 11 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 167996-75-0 REGISTRY

ED Entered STN: 22 Sep 1995

CN 1,3,5-Triazine, 2-[2-(2,3-dimethoxyphenyl)ethenyl]-4,6-

bis(trichloromethyl) - (CA INDEX NAME)

MF C15 H11 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 12 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN RN 165954-20-1 REGISTRY

ED Entered STN: 09 Aug 1995

CN 1,3,5-Triazine, 2-(2,2-dimethylpropyl)-4-[2-(4-methoxyphenyl)ethenyl]6-(trichloromethyl)- (CA INDEX NAME)

MF C18 H20 C13 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 13 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 165954-13-2 REGISTRY

ED Entered STN: 09 Aug 1995

CN 1,3,5-Triazine, 2-(1,1-dimethylethyl)-4-[2-(4-methoxyphenyl)ethenyl]-

6-(trichloromethyl)- (CA INDEX NAME)

MF C17 H18 C13 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 14 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 154880-07-6 REGISTRY

ED Entered STN: 06 May 1994

N 1,3,5-Triazine, 2-[2-(3,5-dimethoxyphenyl)ethenyl]-4,6bis(trichloromethyl)- (CA INDEX NAME)

OTHER NAMES:

CN 2,4-Bis(trichloromethy1)-6-[2-(3,5-dimethoxypheny1)etheny1]-s-

triazine

MF C15 H11 C16 N3 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE) 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L4 ANSWER 15 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 148515-39-3 REGISTRY

ED Entered STN: 07 Jul 1993

- CN Carbamic acid, ((2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyl)tri-6,1-hexanediyl)tri-s-, tris[2-[3-[2-[4,6-bis(trichloromethyl)-1,3,5-triazin-2-yl]ethenyl]phenoxylethyl] ester (9CI) (CA INDEX NAME)
- MF C69 H69 C118 N15 O12
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

PAGE 2-B

PAGE 2-C

-0013

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 16 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN L4

RN 133926-84-8 REGISTRY

Entered STN: 24 May 1991 ED

CN 2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3propanediyl ester, polymer with 2-[4-(2-phenylethenyl)phenyl]-4,6-

bis(trichloromethyl)-1,3,5-triazine (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

1,3,5-Triazine, 2-[4-(2-phenylethenyl)phenyl]-4,6bis(trichloromethyl)-, polymer with 2-ethy1-2-[[(1-oxo-2-propenyl)oxy]methy1]-1,3-propanediy1 di-2-propenoate

(9CI) (C19 H11 C16 N3 . C15 H20 O6)x

MF CI PMS

PCT Polyacrylic, Polystyrene

SR CA

LC STN Files: CA, CAPLUS

> CM 1

CRN 97802-84-1 CMF C19 H11 C16 N3

CC13

CM 2

CRN 15625-89-5

CMF C15 H20 O6

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L4ANSWER 17 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 125775-93-1 REGISTRY ED
- Entered STN: 09 Mar 1990
- 1,3,5-Triazine, 2-[4-[2-[5-(3,4-dimethoxyphenyl)-1,3,4-oxadiazol-2-CN
 - vllethenvllphenvll-4,6-bis(trichloromethvl)- (CA INDEX NAME)
- C23 H15 C16 N5 O3 MF
- SR CA LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE) 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- ANSWER 18 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN L4
- RN 125775-91-9 REGISTRY
- ED Entered STN: 09 Mar 1990
- CN 1,3,5-Triazine, 2-[3-[5-[2-(3,4-dimethoxyphenyl]ethenyl]-1,3,4oxadiazol-2-vl]phenvl]-4,6-bis(trichloromethvl)- (CA INDEX NAME)
- C23 H15 C16 N5 O3 MF
- SR LC STN Files: CA, CAPLUS, USPATFULL
- Page 14

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 19 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 125775-86-2 REGISTRY

ED Entered STN: 09 Mar 1990

oxadiazol-2-yl]phenyl]-4,6-bis(trichloromethyl)- (CA INDEX NAME)
MF C23 H15 C16 N5 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
L4
    ANSWER 20 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
RN
    116746-99-7 REGISTRY
ED
    Entered STN: 02 Oct 1988
CN
    2-Propenoic acid, polymer with 1-ethenyl-2-pyrrolidinone,
     1,6-hexanediyl di-2-propenoate, isooctyl 2-propenoate and
     2-(4-methoxy-1-naphthaleny1)-4,6-bis(trichloromethy1)-1,3,5-triazine
     (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    1,3,5-Triazine, 2-(4-methoxy-1-naphthalenyl)-4,6-bis(trichloromethyl)-
     , polymer with 1-ethenyl-2-pyrrolidinone, 1,6-hexanediyl di-2-propenoate,
     isooctyl 2-propenoate and 2-propenoic acid (9CI)
CN
     2-Propenoic acid, 1,6-hexanediyl ester, polymer with
     1-ethenyl-2-pyrrolidinone, isooctyl 2-propenoate,
     2-(4-methoxv-1-naphthalenvl)-4,6-bis(trichloromethvl)-1,3,5-triazine and
     2-propenoic acid (9CI)
     2-Propenoic acid, isooctyl ester, polymer with
     1-ethenyl-2-pyrrolidinone, 1,6-hexanediyl di-2-propenoate,
     2-(4-methoxy-1-naphthalenyl)-4,6-bis(trichloromethyl)-1,3,5-triazine and
     2-propenoic acid (9CI)
CN
     2-Pyrrolidinone, 1-ethenyl-, polymer with 1,6-hexanediyl
     di-2-propenoate, isooctyl 2-propenoate,
     2-(4-methoxy-1-naphthalenyl)-4,6-bis(trichloromethyl)-1,3,5-triazine and
     2-propenoic acid (9CI)
ME
     (C16 H9 C16 N3 O . C12 H18 O4 . C11 H20 O2 . C6 H9 N O . C3 H4 O2)x
CI
     PMS
PCT Polyacrylic, Polyother, Polyvinyl
SR
     CA
LC
     STN Files: CA, CAPLUS, USPATFULL
     CM
          1
     CRN 69432-40-2
     CMF C16 H9 C16 N3 O
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CRN 29590-42-9 CMF C11 H20 O2 CCI IDS

CM 3

CRN 13048-33-4 CMF C12 H18 O4

CM 4

CRN 88-12-0 CMF C6 H9 N O

CM 5

CRN 79-10-7 CMF C3 H4 O2

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L4 ANSWER 21 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 113804-30-1 REGISTRY
- ED Entered STN: 09 Apr 1988
- CN 2-Propenoic acid, isooctyl ester, polymer with
 - 2-(3,4-dimethoxyphenyl)-4,6-bis(trichloromethyl)-1,3,5-triazine, 1-ethenyl-2-pyrrolidinone and 2-propenamide (9CI) (CA INDEX NAME)
- OTHER CA INDEX NAMES: CN 1,3,5-Triazine, 2-(3,4-dimethoxyphenyl)-4,6-bis(trichloromethyl)-,
- polymer with 1-ethenyl-2-pyrrolidinone, isooctyl 2-propenoate and 2-propenamide (9CI)
 CN 2-propenamide, polymer with 2-(3,4-dimethoxyphenyl)-4,6-
- bis(trichloromethyl)-1,3,5-triazine, 1-ethenyl-2-pyrrolidinone and isooctyl 2-propenoate (9CI)
- CN 2-Pyrrolidinone, 1-ethenyl-, polymer with 2-(3,4-dimethoxyphenyl)-4,6-bis(trichloromethyl)-1,3,5-triazine, isooctyl 2-propenoate and 2-propenamide (9CI)
- MF (C13 H9 C16 N3 O2 . C11 H20 O2 . C6 H9 N O . C3 H5 N O)x
- CI PMS
- PCT Polyacrylic, Polyother, Polyvinyl
- SR CA LC STN Files: CA, CAPLUS, USPATFULL
 - C SIN FILES: CA, CAPLOS, OSPAIR
 - CM 1
 - CRN 80050-87-9
 - CMF C13 H9 C16 N3 O2

CM 2

CRN 29590-42-9

CMF C11 H20 O2

CCI IDS

CM 3

CRN 88-12-0 CMF C6 H9 N O

CM 4

CRN 79-06-1 CMF C3 H5 N O

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 22 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 97802-76-1 REGISTRY

ED Entered STN: 31 Aug 1985

CN 1,3,5-Triazine, 2-[4-[2-(3,4-dimethoxyphenyl)ethenyl]phenyl]-4,6-

bis(trichloromethyl) - (CA INDEX NAME)

C21 H15 C16 N3 O2 MF SR CA

LC

STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 23 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN

RN 42880-08-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,3,5-Triazine, 2-[2-(2,4-dimethoxyphenyl)ethenyl]-4,6bis(trichloromethyl)- (CA INDEX NAME)

OTHER NAMES:

CN 2-(2,4-Dimethoxystyryl)-4,6-bis(trichloromethyl)-s-triazine

CN TAZ 114

MF C15 H11 C16 N3 O2

LC SIN Files: CA, CAPLUS, CHEMCATS, CSCHEM, IFICDB, IFIPAT, IFIUDB, SPECINFO, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 15 REFERENCES IN FILE CA (1907 TO DATE)
- 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L4 ANSWER 24 OF 24 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 42880-07-9 REGISTRY
- ED Entered STN: 16 Nov 1984
- CN 1,3,5-Triazine, 2-[2-(3,4-dimethoxyphenyl)ethenyl]-4,6bis(trichloromethyl)- (CA INDEX NAME)
- OTHER NAMES:
 CN 2-(3,4-Dimethoxystyry1)-4,6-bis(trichloromethy1)-s-triazine
- CN TAZ 113
- MF C15 H11 C16 N3 O2
- LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, IFICDB, IFIPAT, IFIUDB, SPECINFO, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

(42880-07-9/RN)

18 REFERENCES IN FILE CA (1907 TO DATE) 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> S 42880-07-9 1 42880-07-9

=> D

T. 5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN

RN 42880-07-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,3,5-Triazine, 2-[2-(3,4-dimethoxyphenyl)ethenyl]-4,6bis(trichloromethyl) - (CA INDEX NAME)

OTHER NAMES: CN 2-(3,4-Dimethoxystyryl)-4,6-bis(trichloromethyl)-s-triazine

CN TAZ 113

MF C15 H11 C16 N3 O2

LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, IFICDB, IFIPAT, IFIUDB, SPECINFO, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE) 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FILE CAPLUS COST IN U.S. DOLLARS

SINCE FILE TOTAL. ENTRY SESSION 100.46 100.24

FULL ESTIMATED COST

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FILE COVERS 1907 - 3 Mar 2010 VOL 152 ISS 10 FILE LAST UPDATED: 2 Mar 2010 (20100302/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L5

L6 18 L5

=> D ALL 1-18

- L6 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
- AN 2007:1272565 CAPLUS <<LOGINID::20100303>>
- DN 147:531561
- ED Entered STN: 09 Nov 2007
- Optical compensation sheet having liquid crystals with hybrid alignment and fluoropolymers, polarizer using it, and liquid crystal display having it with wide view angle
- Tatsuta, Takekazu; Ushiyama, Akinobu; Kondo, Shunichi; Morishima,
- Fuji Photo Film Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 61pp.
- CODEN: JKXXAF
- DT Patent
- T.A Japanese
- 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2007293180 PRAI JP 2006-123308	A	20071108 20060427	JP 2006-123308	20060427

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

G02B0005-30 [I,A]; G02F0001-13363 [I,A]; G02F0001-1335 TPCT [I.A]: G02F0001-13 [I.C*] IPCR G02B0005-30 [I,C]; G02B0005-30 [I,A]; G02F0001-13 [I,C]; G02F0001-1335 [I,A]; G02F0001-13363 [I,A] FTERM 2H049/BA02; 2H049/BA06; 2H049/BA42; 2H049/BB03; 2H049/BB49; 2H049/BC02; 2H049/BC22; 2H091/FA08X; 2H091/FA08Z; 2H091/FA11X; 2H091/FA11Z; 2H091/FA12X; 2H091/FA12Z; 2H091/FB02; 2H091/FD06; 2H091/KA02; 2H091/LA12 The optical compensation sheet comprises (A) a substrate, (B) an alignment layer formed from a 1st composition, and (C) an optical compensation laver formed from a 2nd composition comprising liquid crystalline compds., photopolymn. initiators with a sensitive range of 330-450 nm generating halogen radicals or hydrocarbon radicals that comprise ≤8 atoms (except H), and fluoroaliph, group-containing polymers having hydrophilic groups selected from CO2H, SO3H, PO(OH)2, and their salts, wherein the 1st composition and/or the 2nd composition contain ≥1 crystal nucleating agents with nucleophilic constant 5-10. Optical compensation sheets with highly controlled alignment angles and high alignment rate of the liquid crystalline compds. are provided with this invention. optical compensation sheet hybrid alignment fluoropolymer; LCD compensator liq crystal alignment fixing fluoropolymer photoinitiator; nucleating agent hydrophilic fluoropolymer optical compensator LCD display Fluoropolymers, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (acrylic; optical compensation sheet having liquid crystals with hybrid alignment and fluoropolymers) Sulfites Thiosulfates RL: MOA (Modifier or additive use); USES (Uses) (nucleating agent; optical compensation sheet having liquid crystals with hybrid alignment and fluoropolymers) Crystal nucleating agents Liquid crystal displays Polarizers (optical compensation sheet having liquid crystals with hybrid alignment and fluoropolymers) Polymerization catalysts (photopolymn.; optical compensation sheet having liquid crystals with hybrid alignment and fluoropolymers) Optical instruments (retarders; optical compensation sheet having liquid crystals with

hybrid

```
alignment and fluoropolymers)
    182154-38-7
    RL: TEM (Technical or engineered material use); USES (Uses)
        (alignment layer containing; optical compensation sheet having liquid
       crystals with hybrid alignment and fluoropolymers)
    902515-39-3 910810-39-8 927889-28-9
    RL: POF (Polymer in formulation); TEM (Technical or engineered material
    use); USES (Uses)
       (anisotropic layer containing; optical compensation sheet having
liquid
       crystals with hybrid alignment and fluoropolymers)
ТТ
    9004-36-8, CAB 551-0.2
    RL: TEM (Technical or engineered material use); USES (Uses)
       (anisotropic layer containing; optical compensation sheet having
liquid
       crystals with hybrid alignment and fluoropolymers)
    1310-58-3, Potassium hydroxide, uses 7757-82-6, Disodium sulfate, uses
    14280-30-9, Hydroxide, uses
    RL: MOA (Modifier or additive use); USES (Uses)
        (nucleating agent; optical compensation sheet having liquid crystals
with
       hybrid alignment and fluoropolymers)
    401624-10-0P
    RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
     (Technical or engineered material use); PREP (Preparation); USES (Uses)
       (optical compensation sheet having liquid crystals with hybrid
alignment
       and fluoropolymers)
    876594-22-8
    RL: MOA (Modifier or additive use); USES (Uses)
       (optical compensation sheet having liquid crystals with hybrid
alignment
       and fluoropolymers)
    91-44-1 27389-48-6 42880-07-9 71255-78-2 76185-67-6
    91484-47-8 97802-84-1 125407-19-4 125675-34-5 145413-29-2
    154880-05-4 156360-76-8 195834-08-3 253585-66-9
                                                          253585-71-6
    359776-76-4 381233-66-5 405263-63-0 932020-63-8 932020-64-9
    932020-65-0 932020-66-1 932020-67-2 932020-68-3
    RL: CAT (Catalyst use); USES (Uses)
       (photopolymn. initiator; optical compensation sheet having liquid
       crystals with hybrid alignment and fluoropolymers)
    9012-09-3, TD 80U
    RL: TEM (Technical or engineered material use); USES (Uses)
        (polarizer substrate; optical compensation sheet having liquid
crystals
       with hybrid alignment and fluoropolymers)
    9004-35-7
    RL: TEM (Technical or engineered material use); USES (Uses)
       (substrate; optical compensation sheet having liquid crystals with
hybrid
       alignment and fluoropolymers)
    ANSWER 2 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
    2007:971053 CAPLUS <<LOGINID::20100303>>
```

- DN 147:311478
- ED Entered STN: 31 Aug 2007
- TI Optical compensation sheets having photopolymerized liquid crystal anisotropic layers, their manufacture, polarizing plates, and liquid crystal displays
- IN Oikawa, Noriki; Yoshikawa, Susumu; Kondo, Shunichi
- PA Fuji Photo Film Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 35pp.
 - CODEN: JKXXAF
- DT Patent
- LA Japanese
 - 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 25, 35, 38, 73

FAN.CI

PAN.CNI I				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2007219193	A	20070830	JP 2006-40258	20060217
PRAI JP 2006-40258		20060217		
CLASS				

PATENT NO. CLAS

CLASS PATENT FAMILY CLASSIFICATION CODES

IPCI G02B0005-30 [I,A]; B32B0007-02 [I,A]; B32B0023-08
[I,A]; B32B0023-00 [I,C*]; G02F0001-13363 [I,A];
G02F0001-1335 [I,A]; G02F0001-13 [I,C*]

IPCR G02B0005-30 [I,C]; G02B0005-30 [I,A]; B32B0007-02 [I,C]; B32B0007-02 [I,A]; B32B0023-00 [I,C];

[I,C]; B32B0007-02 [I,A]; B32B0023-00 [I,C]; B32B0023-08 [I,A]; G02F0001-13 [I,C]; G02F0001-1335 [I,A]; G02F0001-13363 [I,A]

FTERM 2H049/BA02; 2H049/BA06; 2H049/BA02; 2H049/BB03; 2H049/BB03; 2H049/BB02; 2H049/BC02; 2H049/BC02; 2H091/FA08X; 2H091/FA08X; 2H091/FA08X; 2H091/FA01X; 4F100/FA01X; 4F100/F

4F100/JB14B; 4F100/JK06; 4F100/JL05B; 4F100/JN01A; 4F100/JN30B

AB The sheets have optical retardation layers manufactured by photopolymn. of liquid

crystalline compns. containing ZnL100Qm [Z = polymerizable substituent; \bigcirc =

SiR1003, aldehyde, acyl, carboxyl, isocyanate, B-containing substituent;

= halo, alkoxy, alkyl; ≥ 1 of R100 = halo or alkoxy; L100 = (m + n)-valent linkage; m = 1, 2; n = 0-4] and photopolymm. initiators generating halogen radicals or C≤8 hydrocarbon radicals by excitation with light at 330-450 nm. Preferable compds. for the initiators are also given. In the manufacture, the compns. are cured at $\leq 80^\circ$. The sheets have good interlayer adhesion between the anisotropic layers and alignment layers.

```
optical compensation sheet anisotropic lig cryst photopolymn; LCD
    polarizer photopolymerized liq crystal anisotropic
    Liquid crystal displays
    Polarizers
        (manufacture of optical compensation sheets having photopolymd.
liquid crystal
       retardation layers for polarizing plates for liquid crystal displays)
    Optical instruments
       (retarders; manufacture of optical compensation sheets having
photopolymd.
       liquid crystal retardation layers for polarizing plates for liquid
crystal
       displays)
    814-68-6, Acryloyl chloride 30418-59-8, 3-Aminophenylboronic acid
TT
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (acryloylaminophenylboronic acid manufactured from; manufacture of
optical
       compensation sheets having photopolymd. liquid crystal retardation
lavers
       for polarizing plates for liquid crystal displays)
    91-44-1 27389-48-6 42880-07-9 71255-78-2 76185-67-6
    91484-47-8
                97802-84-1 125407-19-4 125675-34-5 145413-29-2
                 156360-76-8
    154880-05-4
                               195834-08-3
                                             253585-64-7
                                                            253585-66-9
    253585-71-6
                  405263-63-0
                               932020-63-8
                                             932020-64-9
    932020-66-1
                 932020-68-3
    RL: CAT (Catalyst use); USES (Uses)
       (initiator; manufacture of optical compensation sheets having
photopolymd.
       liquid crystal retardation layers for polarizing plates for liquid
crystal
       displays)
    947279-07-4P
                   947279-09-6P 947279-10-9P 947279-11-0P
                                                               947279-12-1P
    947279-13-2P
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
       (manufacture of optical compensation sheets having photopolymd.
liquid crystal
       retardation layers for polarizing plates for liquid crystal displays)
    9004-35-7
    RL: TEM (Technical or engineered material use); USES (Uses)
       (support film; manufacture of optical compensation sheets having
       photopolymd. liquid crystal retardation layers for polarizing plates
for
       liquid crystal displays)
L6
    ANSWER 3 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
AN
    2007:379396 CAPLUS <<LOGINID::20100303>>
DN
    146:390896
ED
    Entered STN: 05 Apr 2007
ΤI
    Optical compensation sheet containing fixed liquid crystal, polarizer,
and
    liquid crystal display
```

Kondo, Shunichi

Fuji Photo Film Co., Ltd., Japan

TN

PA

- SO Jpn. Kokai Tokkvo Koho, 23pp.
- CODEN: JKXXAF
- DT Pat.ent.
- LA Japanese
- 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNI	1					
PATENT NO.		KIND	DATE	APPLICATION NO.	DATE	
PI JP	20070862	53	A	20070405	JP 2005-273162	20050921
PRAI JP	2005-273	162		20050921		
CLASS						
DATEME	NO	CIACC	DATEME	DAMITY CIAC	CIPICATION CODEC	

CLASS PATENT FAMILY CLASSIFICATION CODES IPCI G02B0005-30 [I,A]; G02F0001-1335 [I,A]; G02F0001-13363

[I,A]; G02F0001-13 [I,C*]; B32B0007-02 [I,A]; B32B0023-08 [I,A]; B32B0023-00 [I,C*] IPCR G02B0005-30 [I,C]; G02B0005-30 [I,A]; B32B0007-02

[I,C]; B32B0007-02 [I,A]; B32B0023-00 [I,C]; B32B0023-08 [I.A]; G02F0001-13 [I.C]; G02F0001-1335 [I.A]: G02F0001-13363 [I.A]

FTERM 2H049/BA02; 2H049/BA06; 2H049/BA42; 2H049/BB03; 2H049/BB42; 2H049/BB49; 2H049/BC04; 2H049/BC05; 2H049/BC22; 2H091/FA08X; 2H091/FA08Z; 2H091/FA11X;

2H091/FA11Z; 2H091/FB02; 2H091/FB12; 2H091/FC22; 2H091/FC23; 2H091/FD10; 2H091/FD15; 2H091/GA06; 2H091/GA16; 2H091/GA17; 2H091/LA12; 4F100/AJ06A; 4F100/AK01B; 4F100/AT00A; 4F100/BA02; 4F100/CA30B; 4F100/GB41; 4F100/JA11B; 4F100/JB14B; 4F100/JK06; 4F100/JL02; 4F100/JM01B; 4F100/JN01A; 4F100/JN10B

The sheet comprises a transparent substrate and an optical anisotropic layer containing liquid crystal compound fixed by a photopolymn. initiator having

photosensitive region at 330-450 nm and generating a hydrocarbon radical with number of atoms ≤8 (except halogen radical and H). Polarizer comprises the sheet, transparent protective layer and polarizing film. Liquid crystal display having the polarizers on both sides of the liquid crystal cell is also claimed. The sheet can be formed by low energy UV ray and shows good adhesion with the anisotropic layer and alignment

film. ST optical compensation sheet liq crystal fixation photopolymn initiator; liq

crystal display polarizer optical compensator

Liquid crystal displays

(liquid crystal display with optical compensation sheet with anisotropic

layer containing liquid crystal compound fixed by photopolymn.

Liquid crystals, polymeric

(optical compensation sheet with anisotropic laver containing liquid crystal

compound fixed by photopolymn. initiator)

Polymerization catalysts

(photopolymn.; optical compensation sheet with anisotropic layer containing

Polarizers

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containing liquid crystal compound fixed by photopolymn. initiator)
    Optical instruments
       (retarders; optical compensation sheet with anisotropic layer
containing
       liquid crystal compound fixed by photopolymn. initiator)
    180570-45-0P 663626-57-1P
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
       (optical compensation sheet with anisotropic layer containing liquid
crystal
       compound fixed by photopolymn. initiator)
    91-44-1 27389-48-6 42880-07-9 71255-78-2 76185-67-6
    91484-47-8 97802-84-1 125407-19-4 125675-34-5 145413-29-2
    154880-05-4
                 156360-76-8 195834-08-3 253585-66-9 253585-71-6
    359776-76-4 405263-63-0 932020-63-8 932020-64-9 932020-65-0
                               932020-68-3
    932020-66-1
                 932020-67-2
    RL: CAT (Catalyst use); USES (Uses)
       (photopolymn, initiator; optical compensation sheet with anisotropic
       layer containing liquid crystal compound fixed by photopolymn.
initiator)
    9004-35-7
    RL: TEM (Technical or engineered material use); USES (Uses)
       (substrate; optical compensation sheet with anisotropic layer
containing
       liquid crystal compound fixed by photopolymn. initiator)
    ANSWER 4 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
L6
    2006:1313648 CAPLUS <<LOGINID::20100303>>
AN
DN
    147:223121
ED
    Entered STN: 15 Dec 2006
TΙ
    Studies of synthesis of triazine derivatives and their properties as
    photoacid generators for photoresists
AU
    Wang, Jian; Wang, Wen-guang; Zhang, Wei-min; Pu, Jia-ling
CS
    Beijing Area Major Lab of Printing & Packaging Material and Technology,
    Beijing Institute of Graphic, Xinghua Beilu, Beijing, 102600, Peop. Rep.
    China
SO
    Ganguang Kexue Yu Guang Huaxue (2006), 24(6), 436-443
    CODEN: GKKHE9; ISSN: 1000-3231
PB
   Kexue Chubanshe
DT
    Journal
T.A
    Chinese
CC
    74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
   Five triazine derivs., such as 2-(4-methoxystyryl)-4,6-
    bis(trichloromethyl)-1,3,5-triazine and
    2-(3,4-dimethoxystyryl)-4,6-bis(trichloromethyl)-1,3,5-triazine(I), were
    prepared and characterized by 1H NMR and mass spectra. Quantum yields of
    decomposition and acid formation of I in acetonitrile in different
```

measured when exposed at 405 and 365 nm. It was found that quantum

liquid crystal compound fixed by photopolymn, initiator)

(polarizer with optical compensation sheet with anisotropic layer

yields

concns. were

```
are strongly dependent on the wavelengths of light, rather than on their
    concns. in acetonitrile. Decomposition and acid formation in
acetonitrile of I
    are more efficient at 405 nm than at 365 nm.
    styryl triazine compd photoacid generator photoresist
IT
   Photoresists
       (preparation of triazine derivs, as photoacid generators for
photoresists)
    42573-57-9P
                 42880-07-9P 123319-90-4P 944727-17-7P
    944727-18-8P
    RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
       (preparation of triazine derivs. as photoacid generators for
photoresists)
   120-14-9
              120-21-8 123-11-5, reactions 949-42-8 4181-05-9
    7570-45-8
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (preparation of triazine derivs. as photoacid generators for
photoresists)
    ANSWER 5 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
AN
    2006:655656 CAPLUS <<LOGINID::20100303>>
DN
    145:113605
    Entered STN: 07 Jul 2006
    Radiation-sensitive negative resin compositions, dielectric films
    therefrom, and organic electroluminescence displays therewith
IN
    Abe, Nobuki
PA
    Nippon Zeon Co., Ltd., Japan
SO
    Jpn. Kokai Tokkyo Koho, 20 pp.
    CODEN: JKXXAF
DT
    Patent
LA
   Japanese
CC
    74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
    Section cross-reference(s): 38
```

FAN.CNT 1	
PATENT	NO.

PAIENI NO.		KIND DA.	I E	APPLIC	ATTON NO.	DAIL
PI JP 20061794 PRAI JP 2004-374 CLASS			060706 041224	JP 200	4-374128	20041224
PATENT NO.	CLASS	PATENT FAM:	ILY CLASS:	FICATI	ON CODES	
[I,A]	IPCI	[I,A]; H011	L0027-32	[I,A];	H01L0027-2]; G09F0009-30 28 [I,C*]; ; H01L0051-50
	FTERM	2H025/AB20 2H025/CB17 3K007/AB11	; 2H025/A0 ; 2H025/CI ; 3K007/AI	C01; 2H B28; 2H B18; 3K	025/AD01; 025/CB45; 007/BA06;	2H025/AB17; 2H025/BE00; 2H025/CC17; 3K007/DB03; 5C094/BA27;

APPLICATION NO

DATE

KIND DATE

AB The compns. comprise (a) alkali-soluble resins (e.g., novolak resins, polyhydroxystyrene), (b) photoacid generators, and (c) curing agents

- (e.g., melamines, epoxides). The compns. form edge-rounded dielec. films with less shrinkage.
- ST org electroluminescent display dielec film neg photoimaging; novolak melamine resin photoacid generator EL display insulator; display edge rounded insulator film shrinkage prevention
- T Electroluminescent devices

(displays; radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)

T Luminescent screens

(electroluminescent; radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)

- IT Phenolic resins, uses
 - RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(novolak; radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)

IT Photoimaging materials

(photopolymerizable; radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)

T Dielectric films

(radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)

- IT Aminoplasts
 - RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
 - (radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)
 - 9003-08-1, Melamine resin
 - RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)

(Cymel 300, Nikalac MW 30HM, curing agents; radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)

- IT 27029-76-1, m-Cresol-p-cresol-formaldehyde copolymer RL: DEV (Device component use); TEM (Technical or engineered material
 - use); USES (Uses)
 (LC 5080G, LC 4050G; radiation-sensitive neg. resin compns. forming edge-rounded dielec. films for EL displays)
- IT 24979-70-2, S 4P
 - RI: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (\$ 4P; radiation-sensitive neq. resin compns. forming edge-rounded
- dielec. films for EL displays)
- IT 42880-07-9 156360-76-8
 - RL: CAT (Catalyst use); TEM (Technical or engineered material use); USES (Uses)
 (photoacid generators; radiation-sensitive neg. resin compns. forming
 - edge-rounded dielec. films for EL displays)
- OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) UPOS.G Date last citing reference entered STN: 16 Feb 2009
- OS.G CAPLUS 2008:774281; 2008:283298
- L6 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
- AN 2005:1283069 CAPLUS <<LOGINID::20100303>>
- DN 144:43286

- ED Entered STN: 08 Dec 2005
- TI Radiation sensitive composition for color filter, method of forming the color filter under low oxygen atmosphere, and liquid crystal display
- IN Koyama, Kiyoshi; Numata, Atsushi; Kobayashi, Kazuhiro
- PA Jsr Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 22 pp. CODEN: JKXXAF
- CODEN:
- DT Patent LA Japanese
- IC ICM G02B005-20
- ICS G03F007-004; H01L021-027
- CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

I	PATE	NO.		KIND	DATE	P	APE	LICATION NO.	DATE
-									
		0053381		A	200512		JΡ	2004-152781	20040524
	JP 20	004-152	781		200405	524			
CLASS									
PATE	NT NO	٥.	CLASS	PATENT	FAMILY	CLASSIE	IC	CATION CODES	

JP 2005338117 ICM G02B005-20

ICS G03F007-004; H01L021-027

IPCI G02B0005-20 [ICM,7]; G03F0007-004 [ICS,7];

H01L0021-027

[ICS,7]; H01L0021-02 [ICS,7,C*] FTERM 2H025/AA02; 2H025/AB13; 2H025/AC01; 2H025/AD01;

2H025/BC13; 2H025/BC42; 2H025/CA00; 2H025/CB42; 2H025/CC11; 2H025/CC20; 2H025/FA03; 2H025/FA17; 2H048/BA02; 2H048/BA45; 2H048/BA47; 2H048/BA48;

2H048/BB02; 2H048/BB42

- AB Disclosed is a radiation sensitive composition comprising a pigment, a dispersing agent, an alkali-soluble resin, a polyfunctional monomer, and
- $\ensuremath{\mathsf{photopolymn}}$. initiator, wherein a content of the $\ensuremath{\mathsf{photopolymn}}$. initiator on
- the basis of the polyfunctional monomer 100 weight parts is 0.5-5 weight parts.

Also disclosed is a process, in which radiation (e.g., UV light) is directed to a film of said composition under a low O2 atmospheric, preferably, a

reduced pressure. A liquid crystal display having said color filter is

claimed.
ST radiation sensitive compn color filter lig crystal display; UV

photolithog

photosensitive compn IT Liquid crystal displays

Optical filters Photolithography

(Radiation sensitive composition for LCD color filter exposed under reduced

oxygen concentration)

IT 29570-58-9, Dipentaerythritol hexaacrylate

RL: DEV (Device component use); USES (Uses) (Radiation sensitive composition for LCD color filter exposed under reduced oxygen concentration) 7782-44-7, Oxygen, miscellaneous RL: MSC (Miscellaneous) (Radiation sensitive composition for LCD color filter exposed under reduced oxygen concentration) IT 7189-82-4 42880-07-9 119313-12-1 RL: CAT (Catalyst use); USES (Uses) (photopolymn. initiator; Radiation sensitive composition for LCD color filter exposed under reduced oxygen concentration) ANSWER 7 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN AN 2002:748352 CAPLUS <<LOGINID::20100303>> DN 137:286432 ED Entered STN: 03 Oct 2002 TI Negative-working photoresist compositions containing specific photoacid generator and method for pattern formation using the same Kashiwagi, Mikifumi; Kusu, Tetsuaki; Mitao, Tokuyuki IN PA Nippon Zeon Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 7 pp. SO CODEN: JKXXAF Patent LA Japanese IC ICM G03F007-004 ICS G03F007-004; C08K005-3492; C08L101-14; G03F007-40 CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1 PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI JP 2002287 JP 4380075		A B2	20021003 20091209	JP 2001-84404	20010323
PRAI JP 2001-84	404		20010323		
CLASS					
PATENT NO.	CLASS	PATENT	FAMILY CLAS	SIFICATION CODES	
JP 2002287341	ICM	G03F00	7-004		
	ICS	G03F00	7-004; C08K0	05-3492; C08L101-14; (G03F007-40
	IPCI	G03F000	07-004 [I,A]	; C08K0005-3492 [I,A]	; C08K0005-00
		[I.C*1:	C08L0101-1	4 [I,A]; C08L0101-00	[I.C*]:
		G03F000	07-40 [I,A]		
	IPCR]; G03F0007-004 [I,A]	; C08K0005-00

[I,A]

The title composition contains alkali solubilizable resins, a photoacid generator, a cross linking agent, and a solvent, wherein the photoacid generator has 300-450 nm λmax and ≥2500 mol

absorbance(ε), and satisfies the equation:

s≥(400Xλmax)-120000. The composition shows the good

storageability and provide pattern profile of reverse taper, which is

[I,C*]; C08K0005-3492 [I,A]; C08L0101-00 [I,C*]; C08L0101-14 [I,A]; G03F0007-40 [I,C*]; G03F0007-40

- suitable as insulative ribs in organic EL display panels.
- ST neg working photoresist compn photoacid generator
- IT Light-sensitive materials

Negative photoresists

(neg.-working photoresist compns. and method for pattern formation using same)

IT Electroluminescent devices

(panels; neg.-working photoresist compns. and method for pattern formation using same)

IT 1898-74-4, s-Triazine, 2, 4-diphenyl- 42573-57-9,

- 1,3,5-Triazine,2-[2-(4-methoxyphenyl)ethenyl]-4,6-bis(trichloromethyl)-42880-07-9,1,3,5-Triazine,2-[2-(3,4-dimethoxyphenyl)ethenyl]-4,6-bis(trichloromethyl)-79771-30-5 202074-55-3,
- 1,3,5-Triazine,2-[2-(3-chloro-4-methoxyphenyl)ethenyl]-4,6-
- bis(trichloromethyl)
- RL: CAT (Catalyst use); USES (Uses)

(photopolymn. initiator; neg.-working photoresist compns. and method for pattern formation using same)

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) UPOS.G Date last citing reference entered STN: 16 Feb 2009

OS.G CAPLUS 2004:780749

- L6 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
- AN 2000:638197 CAPLUS <<LOGINID::20100303>>
- DN 133:259335
- ED Entered STN: 14 Sep 2000
- TI Actinic ray-sensitive resist composition for manufacture of liquid crystal
 - display color filter
- IN Sakurai, Koichi; Nagatsuka, Tomio; Kamii, Hideyuki; Watanabe, Takeshi
- PA JSR Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- IC ICM G02B005-20
 - ICS C08K005-20; C08L101-12; G03F007-004; G03F007-028
- CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2000249826 PRAI JP 1999-55204		A	20000914 19990303	JP 1999-55204	19990303
CLASS					
PATENT NO.	CLASS	PATENT	FAMILY CLASS	IFICATION CODES	
JP 2000249826	ICM	G02B005	-20		
	ICS			-12; G03F007-004; G03F	
	IPCI			; C08K0005-20 [ICS,7];	
		[ICS, 7]	; G03F0007-0	04 [ICS,7]; G03F0007-0)28 [ICS,7]
	IPCR	G03F000	7-004 [I,C*]	; G03F0007-004 [I,A];	C08K0005-00
		[I,C*];	C08K0005-20	[I,A]; C08L0101-00 [I	[,C*];
		C08L010	1-12 [I,A];	G02B0005-20 [I,C*]; G0)2B0005-20

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[I,A]; G03F0007-028 [I,C*]; G03F0007-028 [I,A]
    The title composition comprises (A) colorant, (B) alkaline-soluble
resin. (C)
     polyfunctional monomer, (D) monofunctional monomer
     CH2:CR1CONH(CH2)iC(OCmH2m+1)HCO2CnH2n+1 [R1 = H, CH3; i = 0-2; m = 1-4; n
     = 1-4], and (E) photopolymn. initiator. The obtained filter shows
     excellent scratch-resistance.
    photoresist compn methacrylamide acrylamide photopolymn initiator color
    filter manuf
ΙT
    Liquid crystal displays
    Photoresists
        (actinic ray-sensitive resist composition for manufacture of liquid
crystal display
       color filter)
     141655-30-3, Benzyl methacrylate-2-hydroxyethyl methacrylate-methacrylic
     acid copolymer 215383-54-3, Benzyl methacrylate-methacrylic
     acid-N-phenylmaleimide-styrene copolymer 283597-64-8, Benzyl
     methacrylate-methacrylic acid-mono(2-acryloyloxyethyl)succinate-N-
     phenylmaleimide-styrene copolymer
                                        283605-07-2, Methacrylic
     acid-styrene-benzyl methacrylate-glycerol
    monomethacrylate-N-phenylmaleimide copolymer
                                                  294849-96-0. Benzvl
    methacrylate-m-carboxylpolycaprolactone monoacrylate-glycerol
     monomethacrylate-methacrylic acid-N-phenylmaleimide-styrene copolymer
    RL: TEM (Technical or engineered material use); USES (Uses)
        (alkaline soluble polymer in actinic ray-sensitive resist composition
for manufacture of
        liquid crystal display color filter)
     294850-08-1P 294850-11-6P
                                 294850-14-9P
                                                 294850-17-2P
                                                                294850-20-7P
                  294850-26-3P
     294850-23-0P
     RL: DEV (Device component use); PNU (Preparation, unclassified); PREP
     (Preparation); USES (Uses)
        (color filter of liquid crystal display obtained from actinic
        ray-sensitive resist composition)
     147-14-8, C.I.Pigment Blue 15:6
                                     215247-95-3, C.I.Pigment Violet 23
     RL: TEM (Technical or engineered material use); USES (Uses)
        (colorant in actinic ray-sensitive resist composition for manufacture
of liquid
        crystal display blue filter)
     1328-53-6, C.I.Pigment Green 7
                                     5567-15-7, C.I.Pigment Yellow 83
     14302-13-7, C.I.Pigment Green 36
                                      30125-47-4, C.I.Pigment Yellow 138
     872613-79-1, C.I.Pigment Yellow 150
     RL: TEM (Technical or engineered material use); USES (Uses)
        (colorant in actinic ray-sensitive resist composition for manufacture
of liquid
        crystal display green filter)
TТ
     128-69-8, C.I.Pigment Red 224
                                   4051-63-2, C.I.Pigment Red 177
     36888-99-0, C.I.Pigment Yellow 139 84632-65-5, C.I.Pigment Red 254
     RL: TEM (Technical or engineered material use); USES (Uses)
        (colorant in actinic ray-sensitive resist composition for manufacture
of liquid
        crystal display red filter)
     77402-03-0 77402-15-4
                             141392-64-5 294849-99-3
     RL: TEM (Technical or engineered material use); USES (Uses)
        (monofunctional monomer in actinic ray-sensitive resist composition
for
```

```
manufacture of liquid crystal display color filter)
   90-93-7, 4,4'-Bis(diethylamino)benzophenone 149-30-4,
     2-Mercaptobenzothiazole 7189-83-5 42880-07-9 119313-12-1,
     2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butanone
     RL: TEM (Technical or engineered material use); USES (Uses)
        (photopolymn. initiator in actinic ray-sensitive resist composition
for
       manufacture of liquid crystal display color filter)
IΤ
     29570-58-9, Dipentaerythritol hexaacrylate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (polyfunctional monomer in actinic ray-sensitive resist composition
for
       manufacture of liquid crystal display color filter)
osc g
       1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
UPOS.G Date last citing reference entered STN: 21 Sep 2009
OS.G CAPLUS 2009:1108696
   ANSWER 9 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
AN
   2000:532752 CAPLUS <<LOGINID::20100303>>
DN
    133:170304
ED
   Entered STN: 04 Aug 2000
    UV-sensitive color filter composition
    Sakurai, Koichi; Yoshida, Koichiro; Watanabe, Takeshi
TN
    JSR Co., Ltd., Japan
    Jpn. Kokai Tokkyo Koho, 24 pp.
    CODEN: JKXXAF
DT
    Patent
LA
    Japanese
IC.
    ICM G03F007-085
    ICS C08F002-48; C08F004-00; G02B005-20; G03F007-004
     74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
FAN.CNT 1
    PATENT NO.
                      KIND DATE
                                        APPLICATION NO.
                                                              DATE
                       ----
    JP 2000214592
                      A
                       A 20000804 JP 1999-15848
B2 20080820
                                                             19990125
JP 4135247
PRAI JP 1999-15848
                              19990125
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
JP 2000214592 ICM G03F007-085
                TCS
                      C08F002-48; C08F004-00; G02B005-20; G03F007-004
                IPCI G03F0007-085 [I,A]; G03F0007-028 [I,A]; G03F0007-004
                      [I,A]; C08F0002-48 [I,A]; C08F0002-46 [I,C*];
                      C08F0004-00 [I,A]; G02B0005-20 [I,A]
                IPCR G03F0007-004 [I,C*]; G03F0007-004 [I,A]; C08F0002-46
                      [I,C*]; C08F0002-48 [I,A]; C08F0004-00 [I,C*];
                      C08F0004-00 [I,A]; G02B0005-20 [I,C*]; G02B0005-20
                       [I,A]; G03F0007-085 [I,C*]; G03F0007-085 [I,A];
                       G03F0007-028 [I,C]; G03F0007-028 [I,A]
AB The invention relates to an UV-sensitive color filter composition
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colorant; (B) an alkali soluble resin; (C) a monomer having plural

functional Page 35

containing: (A) a

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groups; (D) a photopolymn, initiator; and (E) an oxetane. The
composition
    provides the increased hardness of the color filter film.
    color filter compn
    Optical filters
    Optical imaging devices
       (UV-sensitive color filter composition)
IT 90-93-7, 4,4'-Bis(diethylamino)benzophenone 149-30-4,
    2-Mercaptobenzothiazole 3047-32-3 5567-15-7, C.I. Pigment Yellow 83
    7189-83-5 14302-13-7, C.I. Pigment Green 36 29570-58-9,
    Dipentaerythritol hexaacrylate 30125-47-4, C.I. Pigment Yellow 138
     42573-57-9 42880-07-9 71255-78-2 119313-12-1,
     2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butanone 141655-30-3,
    Methacrylic acid-2-hydroxyethyl methacrylate-benzyl methacrylate
copolymer
     142627-97-2 283597-64-8, Methacrylic acid-mono(2-acryloyloxyethyl)
     succinate-styrene-benzyl methacrylate-N-phenylmaleimide copolymer
     283605-07-2, Methacrylic acid-styrene-benzyl methacrylate-glycerol
    monomethacrvlate-N-phenylmaleimide copolymer 872613-79-1, C.I. Pigment
     Yellow 150
    RL: TEM (Technical or engineered material use); USES (Uses)
       (UV-sensitive color filter composition)
    ANSWER 10 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
1.6
    2000:151333 CAPLUS <<LOGINID::20100303>>
AN
DN
    132:201079
ED
    Entered STN: 07 Mar 2000
TΙ
    Dye with protected hydroxy group and thermal-transfer printing material
IN
   Furukawa, Minoru; Hanmura, Masahiro; Equchi, Hiroshi
PA
    Dai Nippon Printing Co., Ltd., Japan
SO
    Jpn. Kokai Tokkvo Koho, 28 pp.
    CODEN: JKXXAF
DT
   Patent
LA
    Japanese
IC
    ICM B41M005-38
CC
    74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
    Section cross-reference(s): 41
FAN.CNT 1
    PATENT NO.
                      KIND DATE APPLICATION NO. DATE
                              -----
J. 20000/1631
PRAI JP 1998-247136
                        A
                             20000307 JP 1998-247136
                                                              19980901
                              19980901
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
JP 2000071631
                ICM
                      B41M005-38
                IPCI B41M0005-38 [ICM, 7]
                IPCR B41M0005-382 [I,A]; B41M0005-26 [I,C*]; B41M0005-385
                       [I,A]; B41M0005-388 [I,A]; B41M0005-39 [I,A];
                       B41M0005-392 [I,A]; B41M0005-50 [I,C*]; B41M0005-50
                       [I,A]; B41M0005-52 [I,A]
OS MARPAT 132:201079
   The dye is protected at least partially on OH by a group, which is
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ST

ΙT

IT

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converted into a volatile substance after releasing from the dve. The
    protecting group leaves a portion linkable with OH, i.e., the exact
    original dye is obtained after removal of the protecting group. The
    thermal-transfer printing material consists of a material with a layer
    containing the dye protected by the group leaving under heat and another
    material having an image-accepting layer containing an acid for
accelerating
    removal of the protecting group. The dye-containing layer and the
    image-accepting layer are laminated and patternwise heated to give an
    image on the accepting layer. The thermally transfered image shows
    prevention of discoloration caused by the residue of protecting group.
    dye protecting group thermal transfer printing; acid catalyst protecting
    group removal acceleration; hydroxy group protected dye thermal printing
    Dves
    Thermal-transfer printing materials
       (dye protected on hydroxy group for thermal-transfer printing)
    Dissociation catalysts
       (for accelerating removal of protecting group from dye in
       thermal-transfer printing material)
    79014-78-1 107689-41-8 109194-20-9
260061-37-8 260061-38-9 260061-39-0
                                            123520-93-4
                                                        147613-95-4
                                            260061-40-3
                                                          260061-41-4
                 260061-43-6 260061-44-7
    260061-42-5
                                            260061-45-8
                                                         260061-59-4
     260061-60-7
                 260061-64-1
                               260061-67-4
    RL: TEM (Technical or engineered material use); USES (Uses)
       (dye protected on hydroxy group for thermal-transfer printing)
    104-15-4, uses 120-18-3, 2-Naphthalene sulfonic acid 949-42-8
    1226-42-2 3584-23-4 5551-72-4 6293-66-9 6542-67-2 10287-53-3
    24504-22-1 34684-40-7 41580-58-9 42573-57-9 42880-07-9
    42880-08-0 42880-12-6 55048-39-0 57835-99-1 57840-38-7
    61358-23-4 61358-25-6 62051-09-6 63226-13-1 66003-76-7
    66003-78-9 69432-40-2
                             71255-78-2 71449-78-0
                                                      73674-58-5
    80050-87-9 81416-37-7 82424-53-1 83697-53-4 83697-56-7
    84563-54-2 85342-62-7 87709-41-9 90555-42-3 115298-63-0
    116808-67-4 127279-74-7 142342-33-4 151052-45-8 160481-39-0
    179419-32-0 193345-23-2 194999-82-1 194999-85-4 202074-55-3
    260061-46-9
                 260061-47-0 260061-48-1 260061-49-2 260061-51-6
    260061-52-7
                 260061-53-8 260061-55-0 260061-57-2 260061-58-3
    RL: CAT (Catalyst use); USES (Uses)
       (for accelerating removal of protecting group from dye in
       thermal-transfer printing material)
    ANSWER 11 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
    1997:577009 CAPLUS <<LOGINID::20100303>>
    127:177245
OREF 127:34346h,34347a
   Entered STN: 11 Sep 1997
    Colored photosensitive acrylic resin compositions using safe solvents and
    color filters using the same
   Tateno, Masahiko; Hidaka, Takahiro
    Sekisui Chemical Co. Ltd., Japan
```

Page 37

L6

AN

DN

ED

TI

IN

PA

SO

DT Pat.ent. LA

Jpn. Kokai Tokkvo Koho, 8 pp.

CODEN: JKXXAF

Japanese

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IC ICM G02B005-20
     ICS C08F290-06; C08L033-04; G03F007-004; G03F007-027; G03F007-029
   37-6 (Plastics Manufacture and Processing)
FAN.CNT 1
    PATENT NO.
                      KIND DATE APPLICATION NO.
                      A 19970711 JP 1995-340853
   JP 09178932
PRAI JP 1995-340853
                              19951227
PATENT NO.
              CLASS PATENT FAMILY CLASSIFICATION CODES
JP 09178932
               TCM
                      G02B005-20
                ICS
                      C08F290-06; C08L033-04; G03F007-004; G03F007-027;
                       G03F007-029
                IPCI G02B0005-20 [ICM,6]; C08F0290-06 [ICS,6]; C08L0033-04
                       [ICS,6]; G03F0007-004 [ICS,6]; G03F0007-027 [ICS,6];
                       G03F0007-029 [ICS,6]
                IPCR G03F0007-004 [I,C*]; G03F0007-004 [I,A]; C08F0290-00
                       [I,C*]; C08F0290-00 [I,A]; C08F0290-06 [I,A];
                       C08L0033-00 [I,C*]; C08L0033-04 [I,A]; G02B0005-20
                       [I,C*]; G02B0005-20 [I,A]; G03F0007-027 [I,C*];
                       G03F0007-027 [I,A]; G03F0007-029 [I,C*]; G03F0007-029
                       [I,A]
    The title compns. use Et lactate as the solvent and polyfunctional
    monomers chosen from pentaervthritol acrylate, ethoxylated
     trimethylolpropane triacrylate, and dipentaerythritol hexaacrylate. A
    binder resin was prepared from acrylic acid 15, 2-hydroxyethyl
methacrylate
    35, Bu methacrylate 35, and Me methacrylate 15 parts and used as
     10%-solids solution in Et lactate with PE-3A crosslinker and Irgacure
369.
    Kayacure CPTX, and Kayacure DMBI, for testing without pigment.
ST
    color filter photosensitive acrylic compn
ΙT
    Optical filters
        (colored photosensitive acrylic resin compns. using safe solvents and
        color filters using the same)
     Crosslinking catalysts
       (photochem.; colored photosensitive acrylic resin compns. using safe
       solvents and color filters using the same)
ΙT
     142770-42-1, 1-Chloro-4-propoxythioxanthone
     RL: CAT (Catalyst use); USES (Uses)
        (Kayacure CPTX; colored photosensitive acrylic resin compns. using
safe
        solvents and color filters using the same)
     21245-01-2, Isoamvl 4-(dimethylamino)benzoate
    RL: CAT (Catalyst use); USES (Uses)
        (Kayacure DMBI; colored photosensitive acrylic resin compns. using
        solvents and color filters using the same)
    160509-79-5, 2-(3,4,5-Trimethoxystvrv1)-4,6-bis(trichloromethv1)-s-
     triazine
     RL: CAT (Catalyst use): USES (Uses)
```

(TAZ 111; colored photosensitive acrylic resin compns. using safe

solvents and color filters using the same)

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triazine
    RL: CAT (Catalyst use); USES (Uses)
        (TAZ 113; colored photosensitive acrylic resin compns. using safe
        solvents and color filters using the same)
ΙT
     151052-45-8, 2-(2-Methoxystyryl)-4,6-bis(trichloromethyl)-s-triazine
     RL: CAT (Catalyst use); USES (Uses)
        (TAZ 118; colored photosensitive acrylic resin compns. using safe
        solvents and color filters using the same)
ΙT
    119313-12-1, Irgacure 369
     RL: CAT (Catalyst use); USES (Uses)
        (colored photosensitive acrylic resin compns. using safe solvents and
        color filters using the same)
     193827-91-7P 193827-94-0P 193827-96-2P
     RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
     (Properties); TEM (Technical or engineered material use); PREP
     (Preparation); USES (Uses)
        (colored photosensitive acrylic resin compns. using safe solvents and
        color filters using the same)
     97-64-3, Ethvl lactate
     RL: NUU (Other use, unclassified); USES (Uses)
        (colored photosensitive acrylic resin compns. using safe solvents and
       color filters using the same)
    ANSWER 12 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
    1996:455321 CAPLUS <<LOGINID::20100303>>
    125:100184
OREF 125:18559a,18562a
ED Entered STN: 01 Aug 1996
TI Photoresist composition and etching method
IN Yoshimoto, Hiroshi
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
    CODEN: JKXXAF
DT Patent
LA
   Japanese
TC
    ICM G03F007-004
    ICS G03F007-038; G03F007-039
    74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
FAN.CNT 1
    PATENT NO.
                      KIND DATE APPLICATION NO. DATE
                             19960430 JP 1994-244425
PRAI JP 1994-244425
                        A
                                                              19941007
                              19941007
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
JP 08110637
                ICM
                      G03F007-004
                ICS
                      G03F007-038; G03F007-039
                IPCI G03F0007-004 [ICM,6]; G03F0007-038 [ICS,6];
                      G03F0007-039 [ICS,6]
                IPCR G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-038
                       [I,C*]; G03F0007-038 [I,A]; G03F0007-039 [I,C*];
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42880-07-9, 2-(3,4-Dimethoxystyryl)-4,6-bis(trichloromethyl)-s-

G03F0007-039 [I.A]

MARPAT 125:100184 os

$$\begin{array}{c}
R1 \\
N \\
N
\end{array}$$

$$\begin{array}{c}
R4 \\
R5 \\
R5
\end{array}$$

$$\begin{array}{c}
R4 \\
R5 \\
R5
\end{array}$$

AB The photoresist composition comprises (a) a novolak resin, (b) an acid crosslinking compound, (c) propylene glycol monoalkyl ether and/or its esters, (d) a photosensitive s-triazine compound I, and (e) another photosensitive s-triazine compound selected from I, II, and III (R1-2 =

III

C1-3 haloalkyl, haloalkenyl; R3 = halo, (substituted) alkyl, alkoxy, (substituted) aryl; R4-5 = H, halo, (substituted) alkyl, alkoxy, (substituted) aryl; R6-7 = H, (substituted) alkyl, alkoxy, (substituted) aryl; R8 = H, halo, alkyl, alkoxy; R9 = heterocyclyl, aryl which may be substituted at positions other than 4]. The etching method comprises (1) coating the photoresist on a substrate, (2) patternwise exposing the photoresist, and (3) wet-etching the substrate using the patterned photoresist. The photoresist shows high sensitivity, good coating property, prevents the generation of developing residue, and is useful

for

manufacture of semiconductor devices.

photoresist triazine compd novolak resin; etching method photoresist ST тт

Phenolic resins, uses

RL: TEM (Technical or engineered material use); USES (Uses) (novolak, photoresist composition containing triazine compound as photosensitive

acid generator)

Resists

(photo-, photoresist composition containing triazine compound as photosensitive

acid generator)

9003-08-1, Nikalac mw 30m

RL: TEM (Technical or engineered material use); USES (Uses)

```
(acid crosslinking agent; photoresist composition containing triazine
compound as
       photosensitive acid generator)
    42573-57-9 42880-05-7 42880-06-8 42880-07-9 42880-08-0
    129509-22-4 151052-44-7
                              151052-45-8 154880-07-6 155050-58-1
    156360-76-8 160509-79-5 166891-15-2 179037-28-6 179037-29-7
    179037-30-0
    RL: CAT (Catalyst use); USES (Uses)
       (photoresist composition containing triazine compound as
photosensitive acid
       generator)
тт
    84540-57-8D, Propylene glycol monomethyl ether acetate, solvent
    RL: NUU (Other use, unclassified); USES (Uses)
       (photoresist composition containing triazine compound as
photosensitive acid
       generator)
    27029-76-1, m-Cresol-p-cresol-formaldehyde copolymer
    RL: TEM (Technical or engineered material use); USES (Uses)
       (photoresist composition containing triazine compound as
photosensitive acid
       generator)
    ANSWER 13 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
    1996:323247 CAPLUS <<LOGINID::20100303>>
    124:356261
DN
OREF 124:65901a,65904a
ED
   Entered STN: 04 Jun 1996
    Color filter for liquid-display panel
    Kashiwazaki, Akio; Sato, Hiroshi; Shirota, Katsuhiro; Yokoi, Hideto;
IN
    Miyazaki, Takeshi; Shiba, Shoji
PA
   Canon K. K., Japan
SO Eur. Pat. Appl., 36 pp.
    CODEN: EPXXDW
DT
    Patent
LA
   English
IC
   ICM G02B005-20
    ICS G02F001-1335
```

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE	
	ΡI	EP 704722	A2	19960403	EP 1995-115446	19950929
		EP 704722	A3	19960828		
		EP 704722	B1	20021218		
		R: DE, FR, GB,	IT			
		JP 08227011	A	19960903	JP 1995-247970	19950926
		US 5716739	A	19980210	US 1995-536781	19950929
		KR 175420	B1	19990320	KR 1995-33427	19950930
	PRAI	JP 1994-237096	A	19940930		
		JP 1994-319991	A	19941222		
		JP 1995-247970	A	19950926		
	CTAS	c				

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

EP 704722	ICM ICS	G02B005-20 G02F001-1335
	IPCI	G02B0005-20 [ICM,6]; G02F0001-1335 [ICS,6];
G02F0001-13		
	IPCR	[ICs,6,C*] 84130002-01 [I,C*]; 84130002-01 [I,A]; 841M0005-00 [I,C*]; 841M0005-00 [I,A]; 841M0005-50 [I,C*]; 841M0005-50 [I,A]; 841M0005-52 [I,A]; 008F0020-00 [I,C*]; C08F0020-52 [I,A]; C08F0020-56 [I,A]; C0860059-00 [I,C*]; C08G0059-50 [I,A]; G02B005-20 [I,C*]; G02B0005-20 [I,A]; G02B0005-22 [I,C*]; G02B0005-22 [I,A]; G02F0001-13 [I,C*]; G02F0001-1335 [I,A]
JP 0822701	ECLA 1 IPCI	G02B005/22D G02B005-20 [ICM,6]; B41J0002-01 [ICS,6]; C08F0020-56 [ICS,6]; C08F0020-00 [ICS,6,C*]; C08G0059-50 [ICS,6]; C08G0059-00 [ICS,6,C*]; G02F0001-1335 [ICS,6]; G02F0001-13 [ICS,6,C*]
	IPCR	B41J0002-01 [I,C*]; B41J0002-01 [I,A]; B41M0005-00 [I,C*]; B41M0005-00 [I,A]; B41M0005-00 [I,A]; B41M0005-50 [I,A]; C08F0020-00 [I,C*]; C08F0020-52 [I,A]; C08F0020-50 [I,C*]; C08F0020-52 [I,A]; C08F0020-56 [I,A]; C08F0059-50 [I,A]; G02B0005-20 [I,C*]; G02B0005-20 [I,A]; G02B0005-22 [I,C*]; G02B0005-22 [I,A]; G02B0005-22 [I,C*]; G02B0005-22 [I,A]; G02F0001-13 [I,C*]; G02F0001-1335 [I,A]
	ECLA	G02B005/22D
US 5716739 G02F0001-13		G02B0005-20 [ICM,6]; G02F0001-1335 [ICS,6];
G02F0001-13		[ICS,6,C*]
	IPCR	B4170002-01 [I,C*]; B4170002-01 [I,A]; B4170005-00 [I,C*]; B4170005-00 [I,A]; B4170005-50 [I,A]; B4170005-50 [I,A]; B4170005-50 [I,A]; B4170005-52 [I,A]; C0870020-00 [I,C*]; C0870020-52 [I,A]; C0870020-56 [I,A]; C087005-00 [I,C*]; C087005-50 [I,A]; G0280005-20 [I,A]; G0280005-20 [I,A]; G0280005-22 [I,A]; G0280005-21 [I,C*]; G0280005-22 [I,A]; G0280005-21 [I,C*]; G0280005-22 [I,A]; G0280005-20 [I,C*]; G0280005-20 [I,A]; G0280005-20 [I,A]; G0280005-20 [I,C*];
	NCL	[I,A] 430/007.000; 347/106.000; 427/164.000; 427/492.000; 427/493.000; 427/511.000; 427/512.000; 430/321.000
	ECLA	G02B005/22D
KR 175420	IPCI	G02F0001-1335 [ICM,7]; G02F0001-13 [ICM,7,C*]
	IPCR	B41J0002-01 [I,C*]; B41J0002-01 [I,A]; B41M0005-00 [I,C*]; B41M0005-00 [I,A]; B41M0005-50 [I,C*]; B41M0005-50 [I,A]; B41M0005-52 [I,A]; C08F0020-00 [I,C*]; C08F0020-52 [I,A]; C08F0020-56 [I,A]; C08G0059-00 [I,C*]; C08G0059-50 [I,A]; G02B0005-20 [I,C*]; G02B0005-20 [I,C*]; G02B0005-22 [I,C*]; G02B0005-22 [I,A]; G02F0001-13 [I,C*]; G02F0001-1335 [I,A]
	ECLA	G02B005/22D
ASSIGNMENT	HISTORY FOR	US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT AB The title color filter is prepared by ink-jet printing of a material having

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an ink-receiving layer comprising a homopolymer of a monomer having the structure CH2=CR1[CON(CH2OR2)] (CH2OR3)]] (R1 = H or methyl; R2, R3 = H or alkyl having 1-5 C atoms) or its copolymer with one or more other vinyl monomers.
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- ST color filter ink jet vinyl polymer; liq crystal display color filter
- IT Optical filters
- (color; preparation by ink-jet printing on ink-receiving layers containing vinvl
- polymers for liquid-crystal display devices)
- IT Optical imaging devices
- (electrooptical liquid-crystal, color filters prepared by ink-jet printing
- on ink-receiving layers containing vinyl polymers for)
- IT Printing, nonimpact
- (ink-jet, on ink-receiving layers containing vinyl polymers for color filter preparation for liquid-crystal display devices)
- IT 313-39-3, Diphenyliodonium tetrafluoroborate 3584-23-4 6542-67-2 24504-22-1 42573-57-9 42880-07-9 52754-92-4, Diphenyliodonium hexafluoroantimonate 58109-40-3, Diphenyliodonium hexafluoroantimonate 5603-76-7 66003-78-9 69432-40-2 79482-18-7
 - hexafluorophosphate 66003-76-7 66003-78-9 69432-40-2 75482-84563-54-2 116808-67-4 176979-01-4 176979-02-5 176979-03-6 176979-04-7 176979-06-9
 - RL: TEM (Technical or engineered material use); USES (Uses)
- (in preparing ink-receiving layers for color filter preparation by ink-iet
- printing for liquid-crystal display devices)
- OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS) UPOS.G Date last citing reference entered STN: 22 Jan 2010
- OS.G CAPLUS 2009:267586; 2009:1618157; 2007:359100; 2009:490065; 2001:472600;

2000:699107

- L6 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
- AN 1995:753433 CAPLUS <<LOGINID::20100303>>
- DN 123:156423
- OREF 123:27615a,27618a
- ED Entered STN: 24 Aug 1995
- TI Negative-type photoresist composition
- IN Yoshimoto, Hiroshi; Kokubo, Tadayoshi
- PA Fuji Photo Film Co., Ltd., Japan
- SO Ger. Offen., 12 pp. CODEN: GWXXBX
- DT Patent
- LA German
- IC ICM G03F007-039
 - ICS C08L061-06; C08K005-3492; C08J003-28; C08J003-24; C08F002-48; C08F026-06; C08F012-26
 - A C08F024-00; C08F028-06
- CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4435791	A1	19950413	DE 1994-4435791	19941006

```
JP 07140653
                                          JP 1993-251778
                                                            19931007
                               19950602
                        A
PRAI JP 1993-251778
                         Α
                               19931007
CLASS
 PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
 DE 4435791
                 ICM
                       G03F007-039
                 ICS
                       C08L061-06; C08K005-3492; C08J003-28; C08J003-24;
                        C08F002-48; C08F026-06; C08F012-26
                 ICA
                       C08F024-00: C08F028-06
                 IPCI
                       G03F0007-039 [ICM,6]; C08L0061-06 [ICS,6]; C08L0061-00
                        [ICS,6,C*]; C08K0005-3492 [ICS,6]; C08K0005-00
                        [ICS, 6, C*]; C08J0003-28 [ICS, 6]; C08J0003-24 [ICS, 6];
                       C08F0002-48 [ICS,6]; C08F0002-46 [ICS,6,C*];
                       C08F0026-06 [ICS,6]; C08F0026-00 [ICS,6,C*];
                       C08F0012-26 [ICS,6]; C08F0012-00 [ICS,6,C*];
                        C08F0024-00 [ICA,6]; C08F0028-06 [ICA,6]; C08F0028-00
                        [ICA, 6, C*]
                 TPCR
                       C08F0002-46 [I,C*]; C08F0002-48 [I,A]; C08K0005-00
                        [I,C*]; C08K0005-3492 [I,A]; G03F0007-004 [I,C*];
                       G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029
                        [I,A]; G03F0007-038 [I,C*]; G03F0007-038 [I,A];
                        H01L0021-02 [I,C*]; H01L0021-02 [I,A]; H01L0021-30
                        [I.A]
                 ECLA
                        C08K005/3492+L61/06: G03F007/004D: G03F007/029A
 JP 07140653
                 IPCI
                       G03F0007-029 [ICM,6]; G03F0007-004 [ICS,6];
                       G03F0007-038 [ICS,6]; H01L0021-02 [ICS,6]
                 IPCR
                       C08F0002-46 [I,C*]; C08F0002-48 [I,A]; C08K0005-00
                       [I,C*]; C08K0005-3492 [I,A]; G03F0007-004 [I,C*];
                       G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029
                        [I,A]; G03F0007-038 [I,C*]; G03F0007-038 [I,A];
                        H01L0021-02 [I,C*]; H01L0021-02 [I,A]; H01L0021-30
                        [I,A]
                 ECLA
                       C08K005/3492+L61/06; G03F007/004D; G03F007/029A
OS
    MARPAT 123:156423
GI
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AB The title composition comprises a photosensitive s-triazine compound, a novolak

resin, an acid splittable compound and propylene glycol monoalkyl ether and/or its ester where the s-triazine compound is selected from I [R1, R2 =

haloalkyl, haloalkenyl; R3 = H, Me; R4 = aryl, heterocyclyl; n = 1, 2; ${\tt Z}$ =

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bond, p-phenylenel. The material has improved solubility and
sensitivity and
    is almost free from any error.
    photoresist compn neg triazine compd
ΙT
    Resists
       (photo-, neg.-type; s-triazine photosensitive compound)
ΙT
    42573-57-9
               42880-03-5 42880-04-6 42880-05-7
                                                     42880-06-8
    42880-07-9 42880-08-0 42880-09-1 42880-10-4
                                                     97802-67-0
    97802-70-5 97802-71-6 97802-72-7 97802-73-8 97802-84-1
    129509-22-4
                151052-44-7 154880-05-4
                                            155050-58-1
                                                          156360-76-8
    166891-14-1
                 166891-15-2 166891-16-3 166891-17-4
                                                         166891-18-5
    166891-19-6
                 166891-20-9
                             166891-21-0 166891-22-1
                                                         166891-23-2
    166891-24-3
                 166891-25-4 166891-26-5 166891-27-6 166891-28-7
    166891-29-8 166891-30-1
                             166891-31-2 166891-32-3 166891-33-4
    166891-34-5
                 166891-35-6
    RL: MOA (Modifier or additive use); USES (Uses)
       (photosensitive compound)
osc.G
            THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
UPOS.G Date last citing reference entered STN: 16 Feb 2009
OS.G CAPLUS 2002:253086
    ANSWER 15 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
AN
    1995:717175 CAPLUS <<LOGINID::20100303>>
DN
    123:213224
OREF 123:37717a,37720a
ED
    Entered STN: 03 Aug 1995
    Negative-working radiation-sensitive resist compositions containing
TΙ
    bis(trichloromethyl)triazines
IN
    Kobayashi, Masaichi; Yamazaki, Hiroyuki; Harada, Yoichiro; Tanaka,
    Hatsuvuki; Nakayama, Toshimasa
PA
    Tokyo Ohka Kogyo Co Ltd, Japan
    Jpn. Kokai Tokkyo Koho, 7 pp.
SO
    CODEN: JKXXAF
DT
    Patent
LA
    Japanese
IC
    ICM G03F007-038
    ICS G03F007-004; G03F007-029; H01L021-027
    74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
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PI JP 07134412 PRAI JP 1993-282 CLASS		A 1995 1993		JP 1993-282824	19931111
PATENT NO.	CLASS	PATENT FAMIL	Y CLASS	IFICATION CODES	
JP 07134412	ICM	G03F007-038			
	TCS	G03F007-004:	G03F00	7-029; H01L021-	027
	IPCI			1; G03F0007-004	
	1501				
		G03F0007-029	[105,6]; H01L0021-027	[ICS, 6];
H01L0021-02					
	IPCR	[ICS,6,C*] G03F0007-004	[I,C*]	; G03F0007-004	[I,A]; G03F0007-029

[I,C*]; G03F0007-029 [I,A]; G03F0007-038 [I,C*]; G03F0007-038 [I,A]; H01L0021-02 [I,C*]; H01L0021-027 [I,A]

GI

AB The resist compns. contain: (A) an alkali soluble resin and an alkxoymethylated amino resin and (B) triazine derivs. I (R1-2 = C1-3 alkyl) or I and triazines II [Z = 4-alkoxyphenyl, 4-alkoxynaphthyl, 2-(3,5-dialkoxyphenyl) ethenyl, 2-(2-furyl) ethenyl, 3,4-methylenedioxyphenyl, 2-(3,4-methylenedioxyphenyl). The compns. show a high sensitivity.

and high resolution and provide resist patterns with good profile.

T neg working radiation sensitive resist; triazine photoacid generator radiation resist

IT Aminoplasts

RL: TEM (Technical or engineered material use); USES (Uses) (neg.-working radiation-sensitive resist compns. containing

(dialkoxystyryl)bis(trichloromethyl)triazines as photoacid generators)
T Phenolic resins, preparation

RL: PNU (Preparation, unclassified); TEM (Technical or engineered aterial

use); PREP (Preparation); USES (Uses)

(novolak, cresol-based, neg.-working radiation-sensitive resist compns.

containing (dialkoxystyryl)bis(trichloromethyl)triazines as photoacid generators)
Resists

(radiation-sensitive, neg.-working, neg.-working radiation-sensitive resist compns. containing

(dialkoxystyryl)bis(trichloromethyl)triazines as photoacid generators)

IT 3584-23-4, 2-(4-Methoxyphenyl)-4,6-bis(trichloromethyl)-1,3,5-triazine
27029-76-1, m-Cresol-p-cresol-formaldehyde copolymer 42880-07-9
156360-76-8 160818-06-8

RL: TEM (Technical or engineered material use); USES (Uses)

(neg.-working radiation-sensitive resist compns. containing
(dialkoxystyryl)bis(trichloromethyl)triazines as photoacid generators)
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

UPOS.G Date last citing reference entered STN: 16 Feb 2009

OS.G CAPLUS 2005:525068

TT

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L6 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1977:163627 CAPLUS <<LOGINID::20100303>>
 DN 86:163627
 OREF 86:25625a,25628a
 ED Entered STN: 12 May 1984
 TI Chromophore-containing vinvlhalomethyl-s-triazine photoinitiator
 IN Bonham, James A.; Petrellis, Panavotis C.
 PA Minnesota Mining and Manufacturing Co., USA
 SO U.S., 8 pp.
       CODEN: USXXAM
 DT Patent
 LA English
 TC C07D251-24
 INCL 260240000D
 CC 74-4 (Radiation Chemistry, Photochemistry, and Photographic Processes)
PATENT NO. KIND DATE APPLICATION NO.

PI US 3987037 A 19761019 US 1971-177851
NL 7211076 A 19730306 NL 1972-11076
NL 172155 B 19830216
NL 172155 C 19830718
CA 986512 A1 19760330 CA 1972-150598
GB 1388492 A 19750326 GB 1972-40496
BE 788295 A1 19730301 BE 1972-21588
DE 2243621 A1 19730301 BE 1972-2243621
DE 2243621 C2 19870820
FR 2152039 A5 19730420 FR 1972-31062
BR 7206066 D0 19730724 BR 1972-6066
CH 576967 A5 19760630 CH 1972-12932
JP 48036281 A 19730528 JP 1972-88304
JP 59001281 B 19840111
IT 965195 B 19740131 IT 1972-5521
US 3954475 A 19760504 US 1973-395419
JP 57001819 B 19820113
PRAI US 1971-177851 A 19710903
CLASS
PATENT NO. CASCA NATIONAL AND ADMINISTRATION OF THE PATENT NO.
 FAN.CNT 3
                                                                                           19710903
                                                                                           19720814
                                                                                            19720901
                                                                                            19720901
                                                                                            19720901
                                                                                            19720901
                                                                                            19720902
                                                                                           19720902
                                                                                           19730910
                                                                                           19801015
  PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
  US 3987037
                       IC C07D251-24
                        INCL 260240000D
                        [I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
                                  C07D0413-00 [I.C*]; C07D0413-06 [I.A]; C08F0002-00
                                  [I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
                                  C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
                                  [I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A];
                                  C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675
                                  [I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*];
                                  G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004
                                  [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
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544/216.000; 101/453.000; 430/281.100; 430/343.000;

NCL

			430/920.000; 522/063.000; 522/109.000; 522/121.000;
			544/194.000; 544/211.000; 544/212.000; 544/219.000
		ECLA	C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;
			C09B023/14H; G03C001/675; G03F007/029A
1	NL 7211076	IPCI	C07D0055-12 [ICM]; C07D0057-00 [ICS]; G03C0001-68
			[ICS]; G03C0001-72 [ICS]; C08F0001-16 [ICS];
		IPCR	C07D0099-02 [ICS] C07D0251-22 [I,A]; C07D0251-00 [I,C*]; C07D0251-24
		IPCR	[I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
			C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00
			[I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
			C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
			[I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A];
			C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675
			[I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*];
			G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004
			[I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
		ECLA	C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;
	CA 986512	TDOD	C09B023/14H; G03C001/675; G03F007/029A
•	CA 986512	IPCR	C07D0251-22 [I,A]; C07D0251-00 [I,C*]; C07D0251-24 [I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
			C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00
			[I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
			C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
			[I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A];
			C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675
			[I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*];
			G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004
			[I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
		ECLA	C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14; C09B023/14H; G03C001/675; G03F007/029A
	GB 1388492	IPCI	C09B0023-14H; G03C001/6/5; G03F00//029A C09B0023-00 [ICM]; C09B0023-06 [ICS]; C09B0023-10
,	GD 1300432	IFCI	[ICS]; C09B0023-14 [ICS]; G03C0001-72 [ICS];
			C08F0002-50 [ICS]; C08F0002-46 [ICS,C*]; G03C0001-68
			[ICS]
		IPCR	C07D0251-22 [I,A]; C07D0251-00 [I,C*]; C07D0251-24
			[I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
			C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00
			[I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
			C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
			[I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A]; C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675
			[I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*];
			G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004
			[I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
		ECLA	C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;
			C09B023/14H; G03C001/675; G03F007/029A
	BE 788295	IPCI	CO7D [ICM]
1	DE 2243621	IPCI	C07D0055-12 [ICM]
		IPCR	C07D0251-22 [I,A]; C07D0251-00 [I,C*]; C07D0251-24
			[I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
			C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00 [I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
			C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
			COOLOUGE TO [1,A], COOLOUGE-40 [1,A], COOLOUGE-30

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IPCR				
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C07D0413-00 I.C*]; C07D0413-06 I.A]; C08F0002-00 I.C*]; C08F0002-00 I.A]; C08F0002-46 I.C*]; C08F0002-46 I.A]; C08F0002-48 I.A]; C08F0002-48 I.A]; C08F0002-46 I.A]; C08F0002-48 I.A]; C08F0002-46 I.A]; C09B0023-01 I.A]; C09B0023-004 I.C*]; G03F0007-029 I.A] C09B0023-01-029 I.A]; C09B0023-01-68 I.A]; C09B0023-01-68 I.A]; C09B0023-01-68 I.A]; C09B0023-01-68 I.A]; C09B0023-04 I.C*]; C09B0023-04 I.C*]; C09B0023-04 I.A]; C09B0002-46 I.A*]; C09B002-46 I.A*]; C09B0002-46 I.A*]; C09B0002-46 I.A*]; C09B002-46 I.A*]; C09B0002-46 I.A*]; C09B0002-00 I.A*]; C09B00002-00 I.A*]; C09B00000-00 I.A*]; C09B00002-00 I.A*]; C09B00000-0002-00 I.A*]; C09B000000-0002-00 I.A*]; C09B000000-0002-00 I.A*]; C09B0000000-0002-00 I.A*			IPCR	
II.C* ; COBF0002-00 II.A ; COBF0002-46 II.C* ; COBF0002-46 II.A ; COBF0002-48 II.A ; COBF0002-46 II.A ; COBF0002-46 II.A ; COBF0002-48 II.A ; COBF0002-46 II.A ; COBF0002-46 II.A ; COBF0002-40 II.A ; COBF0002-3-01 II.A ; COBF0002-3-06 II.A ; COBF0002-3-14 II.A ; GO3C0001-675 II.C* ; GO3C0001-675 II.A ; GO3C0001-72 II.A ; GO3C0001-72 II.A ; GO3F0007-004 II.C* ; GO3F0007-004 II.C* ; GO3F0007-004 II.A ; GO3F0007-004 II.A ; GO3F0007-009 II.A ; GO3C0001-67 II.A ; GO3F0007-029 II.A ; GO3C0001-67 II.A ; GO3F0007-029 II.A ; GO3C0001-675 II.A ; GO3F0007-029 II.A ; GO3F0007-024 II.A ; GO3F0007-027 II.A ; GO3F0007-024 II.A ; GO3F0007-024 II.A ; GO3F0007-024 II.A ; GO3F0007-024 II.A ; GO3F0007-029 II.A				
II.C* ; COBF0002-00 II.A ; COBF0002-46 II.C* ; COBF0002-46 II.A ; COBF0002-48 II.A ; COBF0002-46 II.A ; COBF0002-46 II.A ; COBF0002-48 II.A ; COBF0002-46 II.A ; COBF0002-46 II.A ; COBF0002-40 II.A ; COBF0002-3-01 II.A ; COBF0002-3-06 II.A ; COBF0002-3-14 II.A ; GO3C0001-675 II.C* ; GO3C0001-675 II.A ; GO3C0001-72 II.A ; GO3C0001-72 II.A ; GO3F0007-004 II.C* ; GO3F0007-004 II.C* ; GO3F0007-004 II.A ; GO3F0007-004 II.A ; GO3F0007-009 II.A ; GO3C0001-67 II.A ; GO3F0007-029 II.A ; GO3C0001-67 II.A ; GO3F0007-029 II.A ; GO3C0001-675 II.A ; GO3F0007-029 II.A ; GO3F0007-024 II.A ; GO3F0007-027 II.A ; GO3F0007-024 II.A ; GO3F0007-024 II.A ; GO3F0007-024 II.A ; GO3F0007-024 II.A ; GO3F0007-029 II.A				C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00
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II.C* ; G03C0001-675 [I.A]; G03C0001-72 [I.C*]; G03C0001-72 [I.A]; G03F0007-004 [I.C*]; G03F0007-004 [I.C*]; G03F0007-004 [I.C*]; G03F0007-004 [I.A]; G03F0007-004 [I.A]; G03F0007-029 [I.A] C08F002/46+IDT; G03F0007-029 [I.A] C08F002/46+IDT; G03F0017-629 [I.C*]; G03F0007-029 [I.C*]; G03C0001-76 [ICM]; G03C0001-94 [I.C*]; G03C0001-76 [I.C*]; G03C0001-90 [I.C*]; G03C0001-90 [I.C*]; G03C0001-90 [I.C*]; G03C0001-90 [I.C*]; G03F0007-029 [I.C*]; G03F0007-020 [I.C*]; G0				
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US 3954475			ECLA	
ICS ; 603C0001-00 ICS				
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II.c* ; G03C001-6'5 [I.A]; G03F0007-029 [I.C*]; G03F0007-029 [I.A]				[ICS]; G03C0001-00 [ICS]
II.c* ; G03C0001-675 [I.A]; G03F0007-029 [I.C*]; G03F0007-029 [I.A] NCL			IPCR	C08F0002-46 [I,C*]; C08F0002-46 [I,A]; G03C0001-675
G03F0007-029 [I,A] NCL 430/281.100; 430/916.000; 430/920.000; 430/922.000; 522/063.000; 544/36.000; 544/366.000; 546/226.000 ECLA C08F002/46+IDT; G03C0016/75; G03F007/029A JP 56085746 IPCI G03C0001-68 [ICM]; G03C0001-727 [ICS]; G03F0007-02 [ICS]; G03F0007-10 [ICS]; C08F0002-46 [ICA,C]; C08F0002-46 [ICA,C]; C08F0002-46 [ICA]; C07D0251-02 [I,A]; C07D0403-06 [I,A]; C07D0403-06 [I,A]; C07D0403-06 [I,A]; C07D0403-06 [I,A]; C08F0002-46 [IA,C]; C08F0002-40 [I,C*]; C07D0403-06 [I,A]; C08F0002-46 [I,A]; C08F0002-40 [I,A]; C08F				
NCL 430/281.100; 430/916.000; 430/920.000; 430/922.000; 522/063.000; 544/176.000; 544/36.000; 544/262.000; 526/262.000				
522/063.000; 544/176.000; 544/386.000; 546/226.000 ECLA C08F002/46+IDT; G03C001/675; G03F007/029A JP 56085746 IPCI G03C001-68 [ICM]; G03C0001-727 [ICS]; G03F0007-02 [ICS]; G03F0007-10 [ICS]; G03F0007-10 [ICS]; G05F0002-46 [ICA, C°] IPCR C07D0251-22 [I,A]; C07D0251-00 [I,C*]; C07D0251-24 [I,A]; C07D0403-00 [I,C*]; C07D0403-00 [I,A]; C07D0403-00 [I,C*]; C07D0403-00 [I,A]; C08F0002-40 [I,A]; C08F0002-40 [I,A]; C08F0002-40 [I,A]; C08F0002-40 [I,A]; C08F0002-40 [I,A]; C08F0002-40 [I,A]; C09B0023-01 [I,A]; C09B0023-01 [I,A]; C09B0023-01 [I,A]; G03F0001-72 [I,A]; G03F0001-72 [I,A]; G03F0001-72 [I,A]; G03F0001-72 [I,A]; G03F0001-72 [I,A]; G03F0001-72 [I,A]; G03F0001-004 [I,A]; G03F0007-004 [I,A]; G03F0007-004 [I,A]; G03F0007-009 [I,A]; G03F			NCT.	
BCLA C08F002/46+IDT; G03C001/675; G03F007/029A JP 56085746 IPCI G03C0001-68 [ICM]; G03C0001-727 [ICS]; G03F0007-02 [ICS]; G03F0007-10 [ICS]; C08F0002-48 [ICA]; C08F0002-46 [ICA]; C08F0002-48 [ICA]; C08F0002-46 [ICA]; C07D0251-00 [I,C*]; C07D0251-24 [I,A]; C07D0403-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00 [I,C*]; C08F0002-01 [I,A]; C08F0002-46 [I,A]; C08F0002-01 [I,A]; C08F002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50 [I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A]; C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675 [I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*]; G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A] ECLA C08F002/46+IDT; C09B023/05; C09B023/16; C09B023/14;			1102	
JP 56085746			ECT A	
[ICS]; GO3F0007-10 [ICS]; CO8F0002-48 [ICA]; CO8F0002-46 [ICA, c*] IPCR	TD	EC00E746		
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IPCR C07D0251-22 [I,A]; C07D0251-00 [I,C*]; C07D0251-24 [I,A]; C07D0251-00 [I,C*]; C07D0433-06 [I,A]; C07D0433-00 [I,C*]; C07D0433-06 [I,A]; C08F0002-00 [I,C*]; C07D0413-00 [I,C*]; C08F0002-46 [I,A]; C08F0002-46 [I,A]; C08F0002-46 [I,A]; C08F0002-46 [I,A]; C08F0002-30 [I,C*]; C08F0002-30 [I,C*]; C08F0002-30 [I,C*]; C08F0002-30 [I,C*]; C08F0002-30 [I,A]; C08F0002-32 [I,A]; C08F0002-32 [I,A]; C08F0002-029 [I,A]; C08F0002-46+IDT; C08F002/46+IDT; C08F002/4-128-22-28-23-24-24-24-24-24-24-24-24-24-24-24-24-24-				
[I,A]; C07Do403-00 [I,C*]; C07Do403-06 [I,A]; C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00 [I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*]; C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50 [I,A]; C09B0023-01 [I,C*]; C09B0023-01 [I,A]; C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675 [I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*]; G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A] ECLA C08F002/46+IDT; C09B023/05; C09B023/16; C09B023/14;				
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[I,C*]; CO8F0002-00 [I,A]; CO8F0002-46 [I,C*]; CO8F0002-46 [I,A]; CO8F0002-48 [I,A]; CO8F0002-50 [I,A]; CO9F0002-90 [I,C*]; CO9F0023-01 [I,A]; CO9F0023-06 [I,A]; CO9F0023-14 [I,A]; GO3C0001-675 [I,C*]; GO3C0001-675 [I,A]; GO3C0001-72 [I,C*]; GO3C0001-72 [I,A]; GO3F0007-004 [I,C*]; GO3F0007-004 [I,A]; GO3F0007-029 [I,C*]; GO3F0077-029 [I,C*]; ECLA CO8F002/46+IDT; CO9F023/005; CO9F023/06; CO9F023/14;				
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[I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A]; C09B0023-01 [I,A]; C09B0023-01 [I,A]; C09B0023-04 [I,A]; G03C0001-675 [I,A]; G03C0001-675 [I,A]; G03C0001-72 [I,C*]; G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-005 [I,A]; G03F0007-029 [I,A]; G03				[I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
C0980023-06 [I,A]; C0980023-14 [I,A]; G03C0001-675 [I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*]; G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-004 [I,A]; G03F0007-029 [I,A]; G03F0007-029 [I,A]; G03F0007-029 [I,A]; G03F007-029 [I,A]; G0				C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
[I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*]; G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A] ECLA C08F002/46+IDT; C09B023/005; C09B023/06; C09B023/14;				[I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A];
[I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*]; G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A] ECLA C08F002/46+IDT; C09B023/005; C09B023/06; C09B023/14;				C09B0023-06 [I.A]; C09B0023-14 [I.A]; G03C0001-675
G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004 [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A] ECLA C08F002/46+IDT; C09B023/005; C09B023/06; C09B023/14;				
[I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A] ECLA C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;				
ECLA C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;				
			ECLA.	
			LCLIN	
AB A chromophore-containing vinvlhalomethyl-s-triazine capable of	AB	7 ohromonho	ro-cont	

AB A chromophore-containing vinylhalomethyl-s-triazine capable of generating a

- free radical upon irradiation to near UV or visible light (330-700 m μ) is used as a photoinitiator in free-radical photoimaging compns. Thus, a
- solution prepared from a poly(vinyl butyral) (Butavar B-72A, Monsanto Co.) 5,
 - trimethylol propane trimethacrylate 3,
 - 2,4-bis(trichloromethyl)-6-p-methoxystyryl-s-triazine 0.02 and dichloroethylene 100 parts was coated as a 2-mil layer on a polyester film, dried, laminated to another polyester film, exposed for 10 s to a I-W lamp through a photog. step wedge, the films were peeled apart and dusted with a toner powder to produce a pos. image corresponding to 4 steps on the wedge.
- ST chromophore contg vinylhalomethyltriazine photoinitiator; triazine vinylhalomethyl photoinitiator photopolymer imaging
- IT Vinyl acetal polymers

```
RL: USES (Uses)
        (butyrals, photopolymerizable compns, containing
chromophore-containing
       vinylhalomethyltriazine photoinitiator and, for photoimaging process)
    Vinyl acetal polymers
     RL: USES (Uses)
        (formals, photopolymerizable compns. containing chromophore-containing
        vinylhalomethyltriazine photoinitiator and, for photoimaging process)
     Photoimaging compositions and processes
        (free-radical, photosensitive polymeric compns. containing
        chromophore-containing vinylhalomethyltriazine photoinitiators as)
тт
     62579-98-0
     RL: USES (Uses)
        (color former, for photoimaging composition containing
        bis(trichloromethyl)methoxystyryltriazine photoinitiator, for magenta
        color image production)
IT
     42573-57-9 42880-03-5 42880-04-6 42880-05-7 42880-07-9 42880-08-0 42880-09-1 42880-10-4 42880-11-5 42880-12-6
     42880-13-7 42880-14-8 42880-15-9
     RL: USES (Uses)
        (photoinitiator, for free-radical photosensitive compns, for photog,
        image production)
     25085-82-9 35838-12-1
     RL: USES (Uses)
        (photopolymerizable compns. containing chromophore-containing
        vinylhalomethyltriazine photoinitiator and, for photog. image
       formation)
OSC.G
             THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
UPOS.G Date last citing reference entered STN: 24 Feb 2010
OS.G CAPLUS 2008:1455183; 2005:1175707; 2006:185151; 1992:663027;
              2007:376490; 2006:605131; 2004:293287; 2004:293280; 2004:293278;
              2003:852844; 2003:796171; 2003:796061; 1999:635413; 1998:667955;
              1997:805554; 1995:958474; 1986:226679; 1985:15163; 1984:456250;
              1984:69316; 1983:613811
   ANSWER 17 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1977:36343 CAPLUS <<LOGINID::20100303>>
DN 86:36343
OREF 86:5725a,5728a
ED Entered STN: 12 May 1984
TI Photosensitive elements containing chromophore-substituted
    vinyl-halomethyl-s-triazines
IN Bonham, James A.; Petrellis, Panavotis C.
PA Minnesota Mining and Manufacturing Co., USA
SO U.S., 9 pp.
    CODEN: USXXAM
DT Patent
LA
   English
IC
    G03C001-76
INCL 096067000
   74-5 (Radiation Chemistry, Photochemistry, and Photographic Processes)
FAN.CNT 3
                  KIND DATE APPLICATION NO. DATE
     PATENT NO.
```

PI US 3954475 US 3987037 PRAI US 1971-177 CLASS PATENT NO.	851 CLASS	
US 3954475	IC INCL IPCI IPCR	096067000 G03C0001-76 [ICM]; G03C0001-94 [ICS]; G03C0001-68 [ICS]; G03C0001-00 [ICS] C08F0002-46 [I,C*]; C08F0002-46 [I,A]; G03C0001-675 [I,C*]; G03C0001-675 [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
US 3987037	NCL ECLA IPCI IPCR	CO7DO251-24 [Icw]; CO7DO251-00 [Icw,c*] CO7DO251-22 [I,A]; CO7DO251-00 [I,C*]; CO7DO251-24 [I,A]; CO7DO403-00 [I,C*]; CO7DO403-06 [I,A]; CO7DO413-00 [I,C*]; CO7DO413-06 [I,A]; CO8F0002-00 [I,C*]; CO8F0002-00 [I,A]; CO8F0002-46 [I,C*]; CO8F0002-46 [I,A]; CO8F0002-48 [I,A]; CO8F0002-50 [I,A]; CO9B0023-00 [I,C*]; CO9B0023-01 [I,A]; CO9B0023-06 [I,A]; CO9B0023-01 [I,A]; GO3C001-675 [I,C*]; GO3C0001-675 [I,A]; GO3C0001-22 [I,C*]; GO3C0001-72 [I,A]; GO3F0007-004 [I,C*]; GO3F0007-004 [I,A]; GO3F0007-029 [I,C*]; GO3F0007-09 [I,A];
	NCL ECLA	544/216.000; 101/453.000; 430/281.100; 430/343.000; 430/920.000; 522/063.000; 522/109.000; 522/121.000; 544/194.000; 544/211.000; 544/212.000; 544/219.000 C08F002/46+IDT; C09B023/005; C09B023/06; C09B023/14;
GI	DODA	C09B023/14H; G03C001/675; G03F007/029A

AB A chromophore-substituted (halomethyl) vinyl s-triazine derivative I (R = Br, Cl; Rl = CR3, NH2, NHR4, NR42, OR4 where R4 = Ph, alkyl; R2 = substituted aromatic, heterocyclic group, II where R3 = H, lower alkyl, Ph and Z = 0, S;n = 1-3) generates free radicals upon irradiation with actinic radiation

= 1-3) generates free radicals upon irradiation with actinic radiation (330-700 nm) and is used as a photoinitiator for a photopolymerizable

```
acetate-vinyl chloride polymer 2.46, trimethylolpropane trimethacrylate
6,
     tris(hydroxyethyl)isocyanurate trimethacrylate 2, Cyan XR-553758 (a
     phthalocyanine pigment from American Cyanamid) 1.22 and
     2,4-bis(trichloromethyl)-6-p-methoxystyryl-s-triazine 0.4 was coated on
an
     anodized Al plate at 200 mg/ft2, dried at 140° F for 2 min, exposed
     through a step wedge to a C arc, and developed by treating with a
solution
     containing PrOH 35, H2O 62, (NH4)2SO3 1.5 and (NH4)H2PO4 1.5% and
rubbing with
     a pad to remove the nonexposed areas to give 11 steps vs. 1 step for a
     control using benzoin methyl ether as the photoinitiator.
     photopolymerizable compn halomethylvinyltriazine initiator; image relief
     photog photopolymerizable compn
IT
     Vinvl acetal polymers
    RL: USES (Uses)
        (formals, photopolymerizable compns. containing, for photog. images
and
        printing plates)
    Printing plates
        (photopolymerizable compns. for, containing (halomethyl) vinyltriazine
        photoinitiators)
тт
     Photoimaging compositions and processes
        (photopolymerzable compns. containing (halomethyl) vinyl triazine
       photoinitiators for)
    Resists
        (photo-, photopolymerizable compns. containing (halomethyl) vinyl
triazine
       photoinitiators for)
     42573-57-9
     RL: USES (Uses)
        (photopolymerizable composition containing, for printing plates and
       photoresists)
     3290-92-4 9003-22-9 35838-12-1
     RL: USES (Uses)
        (photopolymerizable compns. containing ( halomethyl) vinyltriazine
        photoinitiator and, for photog. images and printing plates)
ΤТ
     42880-03-5P
                 42880-04-6P
                                42880-05-7P
                                             42880-07-9P
     42880-08-0P
                  42880-09-1P
                                42880-11-5P
                                                             42880-13-7P
                                               42880-12-6P
     42880-14-8P
                  42880-15-9P
                               61413-27-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
              THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
UPOS.G Date last citing reference entered STN: 12 Mar 2009
     CAPLUS 1992:663027; 2004:293287; 2004:293280; 2004:293278; 2003:696378;
              2003:1277; 1999:90242; 1995:958474; 1993:678838; 1989:125483;
              1986:99530; 1985:15163; 1983:613811; 1982:627544; 1982:190687
    ANSWER 18 OF 18 CAPLUS COPYRIGHT 2010 ACS on STN
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composition for printing plates, relief photog, images and photoresists.

a photopolymerizable composition composed of a poly(vinylformal) (Formvar 15-95S, Monsanto Co.) 7.38, maleic anhydride-vinyl anhydride-vinyl

```
AN 1973:516093 CAPLUS <<LOGINID::20100303>>
DN 79:116093
OREF 79:18859a,18862a
ED Entered STN: 12 May 1984
TI Chromophore-substituted vinylhalomethyl-s-triazine
IN Bonham, James A.; Petrellis, Panavotis C.
PA Minnesota Mining and Manufacturing Co.
SO Ger. Offen., 23 pp.
    CODEN: GWXXBX
DT Patient
T.A
   German
TC
    C07D; G03C
CC
    36-6 (Plastics Manufacture and Processing)
    Section cross-reference(s): 28, 74
FAN.CNT 3
    PATENT NO.
                      KIND DATE
                                        APPLICATION NO.
                                                              DATE
                             19730308 DE 1972-2243621
    DE 2243621
                       A1
                                                              19720901
PΤ
                      C2
A
A
    DE 2243621
    US 3987037
                             19870820
                             19761019
                                        US 1971-177851
                                                              19710903
PRAI US 1971-177851
                             19710903
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
               IC
DE 2243621
                      C07D; G03C
                IPCI
                      C07D0055-12 [ICM]
                [I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
                      C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00
                      [I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
                      C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
                      [I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A];
                      C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675
                      [I,C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*];
                      G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004
                      [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
                ECLA C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;
                      C09B023/14H; G03C001/675; G03F007/029A
US 3987037
               IPCI C07D0251-24 [ICM]; C07D0251-00 [ICM,C*]
                IPCR C07D0251-22 [I.Al; C07D0251-00 [I.C*]; C07D0251-24
                      [I,A]; C07D0403-00 [I,C*]; C07D0403-06 [I,A];
                      C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C08F0002-00
                      [I,C*]; C08F0002-00 [I,A]; C08F0002-46 [I,C*];
                      C08F0002-46 [I,A]; C08F0002-48 [I,A]; C08F0002-50
                      [I,A]; C09B0023-00 [I,C*]; C09B0023-01 [I,A];
                      C09B0023-06 [I,A]; C09B0023-14 [I,A]; G03C0001-675
                      [I.C*]; G03C0001-675 [I,A]; G03C0001-72 [I,C*];
                      G03C0001-72 [I,A]; G03F0007-004 [I,C*]; G03F0007-004
                      [I,A]; G03F0007-029 [I,C*]; G03F0007-029 [I,A]
                NCL
                      544/216.000; 101/453.000; 430/281.100; 430/343.000;
                      430/920.000; 522/063.000; 522/109.000; 522/121.000;
                      544/194.000; 544/211.000; 544/212.000; 544/219.000
                ECLA C08F002/46+IDT; C09B023/00S; C09B023/06; C09B023/14;
                      C09B023/14H: G03C001/675: G03F007/029A
```

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A title compound (I) where R is Cl3C or H2N, R1 is Ph, substituted
phenvl.
     or a heterocyclic radical, and n is 1-3), useful as photoinitiators in
t.he
     manufacture of printing plates and light-sensitive elements for photo
     duplication systems, were prepared by condensing the appropriate
s-triazine
     derivative with aldehydes or salts of aldehyde derivative Thus, a
mixture of 330
     parts 2,4-bis(trichloromethyl)-6-methyl-s-triazine [949-42-8] and 149.6
     parts p-anisaldehyde [123-11-5] in 1 1. toluene containing 45 parts
     piperidinium acetate was refluxed while distilling water to give
     2,4-bis(trichloromethyl)-6-p-methoxystyryl-s-triazine (II) [42573-57-9].
     The performance of a printing plate prepared by coating an anodized Al
plate
     with a resin composition containing II was superior to similar plates
prepared with
     resin composition containing conventional photo initiators.
     chromophore conto triazine deriv; photoinitiator triazine deriv; photog
     sensitizer triazine deriv; printing plate light sensitizer;
     photoduplication light sensitizer
     Photographic sensitizers
        (chromaphore-containing triazine derivs.)
     Printing plates
        (light sensitizers for manufacture of, chromaphore-containing
triazine derivs.
        as)
тт
     Photoduplication
        (light sensitizers for, chromaphore-containing triazine derivs.)
     Light, chemical and physical effects
        (sensitizers, chromaphore-containing triazine derivs.)
     42880-03-5 42880-04-6 42880-05-7 42880-06-8 42880-07-9
     42880-08-0
                42880-09-1 42880-10-4
                                           42880-11-5
                                                         42880-12-6
     42880-13-7 42880-14-8 42880-15-9
     RL: USES (Uses)
        (light sensitizers, for photoduplication and printing plate
manufacture)
     949-42-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with aldehydes)
ΙT
     123-11-5 6203-18-5
                          42880-17-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with triazine derivs.)
=> D HIS
     (FILE 'HOME' ENTERED AT 15:55:01 ON 03 MAR 2010)
     FILE 'REGISTRY' ENTERED AT 15:55:15 ON 03 MAR 2010
            246 S TRIAZINE AND ETHENYL AND TRICHLORO
L2
             12 S L1 AND ETHOXY
L3
             2 S L1 AND DIETHOXY
L4
             24 S L1 AND DI AND OXY
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L5 1 S 42880-07-9

FILE 'CAPLUS' ENTERED AT 15:59:06 ON 03 MAR 2010 L6 18 S L5

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 63.32	SESSION 163.78
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-15.30	-15.30

STN INTERNATIONAL LOGOFF AT 15:59:34 ON 03 MAR 2010